The Mining Journal

No. 336. -- Vol. XII.]

LONDON: SATURDAY, JANUARY 29, 1842.

Robertson and Co., 12, Gorce Piazzas Liverpool. Matthias Duno Newcastle.on-Tyne. Juneph Bothway Y Plymouth. John Thompson and Co. Wigns.	
J. T. Trogellas Traro. Traro. Thomas Mossey and Son. Lublin. Pervin and Notan. Wicklow.	1
Coates and Young Belfast. James Ribbis and Co. Glasgow, James Guon Leith. J. M. Beatts, Clessents's-lane, High-street, Dandee,	6'

Go, the Jist lost, will be published, price 1s. for.

THE SURVEYOR, ENGINEER, AND ARCHITECT, No. 5.3.7. which will remain on article on the Common and Prevention of Empore Facts of Early from Continues, weighten expression for this Journal, by a practical on pression of grant of experience in carcinoses. This paper is strongly remainmended to the next of training inventors, projections of relieve interest, and all with any inventors and training inventors or exclusive modern, and all with any inventors and the strongly continues for 1st 1 in the strongly continues are proposed as entirely moderness of with the three professions, by the first professional men of the sky, and tilentrans with suggraving a diagraph and means. London John Women, th, fligh Heilery.

BRYMBO IRON AND COAL COMPANY.—A GENERAL

DOLBREEN TIN AND COPPER MINING COMPANY .-

JOINT.STOCK BANKS.—Just published, beautifully engraved in measurints, by J. Burker, from a published, beautifully engraved

And the great ADDITIONAL PUNCE GRAINERS INFROVED STRUCK CONTROLL TO THE STRUCK CONTROLL TO

body of 1,000,000 ewhite feelt would since to a disease of all filling that areas, and no less than 100 miles in length", see that, if the furence decisioned a ten of one of the control and the past of 100 miles as hour, and, consequently, it will have for past of disable of the speed through the assage or like. I might quade many other author alminist confounding of the application of hot air to the condensations of the speed through the assage or like. I might quade many other author alminist confounding of the application of hot air to the condensations of the condensations of the condensation of this is directly the reverse of the fact; and, is truth, much of the evil of imperient construction; and of the generation of smake, arises from this very electromistance, as we find that at the moment whom we should embeaving to relevant and the small should embeaving the same that the gas, we, is fact, must injudicionally did all we'read to be home it, and thus defeat the very efforts of nation is effecting combination; in or see shall find the construction of many bullers to us the principle of obtaining an anneh heat as possible from the flame, which is just the reverse of what is required. But this as see what the temperature of the gas as generated in. This I will do, by receiving it even tota say someth—[Mr. Williams having lighted a common oil lame, which as load for sat-door stalls, leasted a him pipe into the flame, inhaled the gas, and, after showing its white, vapour like approximent, by again rapelling it through the blow-pipe late the are, perved its generous and inflamenable antiver, by howing it gently forwards a lighted enable, when these was a circum of lighted gas, of considerable brilliancy, visible to all the meeting. The scatures and complicity of this satisfactory experiment ellected general applants. —The last circumstates to which I shall a loads, in limits ration of the error we fall tota, by howing the satisfactory experiment ellected general applants. —The last circumstates in a constant of the satisfactory experiment ellected general applants. —The last circumstates and marketine are not not occur and the cross test of the satisfactory experiment ellected general applants. —The last circumstates are also as a second of the satisfactory experiment ellected general applants of the cross to total general applants of the cross-defendent of the combination of the cross of the satisfactory experiment, is the cross-defendent of the cross-defendent of the combination of the cross-defendent of the combination of the cross-defendent of the passes of the combination of the cross-defendent of t to consider the proportionate volumes of hydrogen and seriou to forming these passe; the component parts of steam, atmospheric oir note east, for.)

seed by Mr. Williams cheering, that be he researched control of the first their reliation and the gas as it peeced over the two bridge (containing water) and a chancelorally appear offer. We conduct servered the first two conduct servered the first two mark brick work.—The Charlestan indicate the first servered the advanced that the stronges that by brating it believe somether over the persons that indicate allowing the first servered the former than the almosphere that is the former than the almosphere that the stronges in the size from conting forces the besignmented of the Pendod this aimmagne in the six from conting stores the temperature of the forsaid. Mr. Waalakan themseld the effect would be the effect cary; we could
not hell a bushed the sitrogen where were not coloud to a very high temperature; both the origine and aimmagne were booked, which might seek to eccesture; both the origine and aimmagne were booked, which might seek to eccesture; both the origine and aimmagne were booked, which might seek to eccesture; ... It. Sharin and, that, to bond the gen, returns meet be get seem woo,
there, ... It. Sharin and, then the seem to be seen the conting of the gen minsequent on the administra of cold tir; as that, if there more a disselvability
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onygen; and it probably would not find and unite with many of these, during the short time the gas was passing through the finemes.—Mr. Weller, and unless the gas and cayees eams is contact about to atom before the gas was cooled down, it was uncleas. It had been proved that the hotter the gas was made, the specific throught can property of heat had been proved that the hotter the gas was made, the specific throught can property of heat had been overlooked—one which showed the ndvantage of the hot-blast for meiting iros, and its instillity in heating gas in the furnace—he meant the specific heat of the sir. A given weight of hot sir, souling down one degree Tahrenheit, would rake the temperature of a soild keep many degrees; but the same volume of hot air would produce a very trilling effect in heating the gas, because meat of the combustibit gases had much more specific heat than atmospheric sir, so that the volume of hot sir cooling down one degree would not raise the temperature of the gas snore than a very small fraction of a degree. Hydrogen one of its principal constituents) had a very high specific heat; and, therefore, the air cooling down would yield a very trilling effect to be refused to the state of the same and the volume of hot air would pred a very trilling effect on the principal constituents of the gas had already attained in the furnace.—Dr. Black having adverted to the solar immp as being constructed on the principal of supplying hot sir. Mr. Williams and, be thought the advantage there arose from the heat resisting downwards from the dome or cup, heating the gas, and the sir being projected with an increased current against the flame, thus bringing more into contact in the same time. All the heat given to the air by the apparatus would be but insignificant and ineffectual.—Dr. Blacks said he referred to the oil lamp.—Mr. Williams said, Dr. Ure had given a valuable paper on heating the gas to the large orifice of the pipe, and from the sixtucen little holes in the burner? From the discrete of

LAW INTELLIGENCE.

DISPUTED RIGHT TO RENEWAL OF LEASE.

DISPUTED RIGHT TO RENEWAL OF LEASE.

WALKER **, JEFFRAYS.—HIS HONOUR Shally disposed of this case; he had on a former day expressed himself disposed to direct two issues as to the drowning out of a mine. The parties, however, had concurred in asking the cloud to the case. The plaintiff and rested his right to relief on two grounds.—first, a covenant for renewal; and, secondly, on a trust to grant a lease; as to the former, he thought the delay of the plaintiff in not demanding a lease would, or might, have barred his right to relief had the case depended on the covenant for renewal alone, but, recollecting the second ground, he did not think the delay ought to be a bur, provided that the plaintiff, or those under whom he claimed, performed their part of the lease. He had now to determine whether, upon evidence, which he had already stated was unsatisfactory to himself, the leases had made wilful default in the performance of the covenant of the lease. The question was, upon which of the The question was, upon he information required. vanual of the lease. same of the covenant of the lease. The question was, upon which of the parties the onair restrict of giving the information required. He thought it lay upon the plaintiff himself. Up to 1815 the lessees had worked the calnes and paid royalties; in that your they created to do so, and became chargeable with Shreach of covenant, unless it could be shown that it was not by their will'ul default the mines had become drowned out. After carefully mustidering the evidence, to first himself compelled to say, that the plaintiff's bill smust be dismigned, and with costs.

COUNTIES AND NORTHERN AND EASTERN RAILWAYS.

COURT OF EXCHEQUER—JAN. 26.

The arguments in the case of the Ayvorney-General of the Eastern and Northern and Eastern Railway Companies, which was part send on Monday, and involved a question as to the right of the companies in arous a station and other buildings connected with the railway over a public passage, called Goddard's Reals, was resumed at the sitting of the court his miruing, and concluded. As the case was sent by the Lord Chancellow for the opinion of the court, Lord Aringer intimated that the barons would certify to the Chancellow their opinion on the case submitted to them some day during the present term.

MONMOUTHSHIRE ISON AND COAL CO .- ACTION FOR CALLS.

MONMOUTHSHERE IRON AND COAL CO.—ACTION FOR CALLS.
COURT OF COMMON PLEAS—JAN. 26.

REYNNER C. LAMBERS.—This was an action of debt, brought by the services of the Monmouthshire Iron and Coal Company, to recurser from the defendant the uses of 1304, for calls of 21, 10s, per share upon sixty shares held by hize in the undertaking. The declaration stated that the defendant was the properietor of sixty shares in the empital of the company, and it then not forth that he, being such properietor, scaled and subscribed the indenture of settlement by which the company was originally constituted, and that he coveranted with the trustees of the company that it should be invited for the board of directors to make only an offer as they thought fit upon the properietors of shares, except the properietors for the time being of certain shares in the indenture of settlement mentioned, and thereby exempted from the payment of only.

The declaration than alleged that certain persons, being a capularly constituted board of directors, made a sail upon the properietors of shares, extended has not rightly being the from the ferendant, in respect of his sixty shares in the capital of the company, amounted to the sum of 13th. To this declaration the defendant demurred.

Mr. Serjeant Channella, is oxygont of the demurrer, contended, in the first place, that the section was not rightly brought by the plaintiff, so necessary of the company, but should have been brought in the names of the trustees mentioned in the Dead of Settlement. Secondly, he exhalled the declaration.

There was no as allegation according that the shares held by the declaration.

ins. There was no allegation everting that the charge held by the it were not part of the exempted charge. Again, it was not stated mouths had viagored between the date of the Deed of Settlement and which the call was to be paid, the date of this deed being laid und

Mr. Nerjount Nynymun, as behalf of the plaintiff, exatended that the ac-tion was well brought by the servatory of the company, and, further, that the allegations in the doclaration were sufficient to show a liability on the part of the delination.—The Coviny tend time to consider.

BRITISH IRON COMPANY-ACTION FOR CALLS.

NATES OF GUERN'S BENUE-JAN. 27.

NATES OF GUERN'S BENUE-JAN. 27.

NATES OF GUERN'S BELLIN ITES Company, against the defendant, for the parishes of calls which had been made by the directors, in respect of certain than its contractors. the payment of calls which had been mode by the directions, in respect of certain shares in the spid-company hold by the defendant. The defendant plending to the action, and after-weaks obtained as order of Mr. Justice Wightman to be allowed to get in other plans. Subsequently a rule was channed by Mr. Kelly calling on the plaintiff is show cause why the defendant obsered set by preceding the tention other plans, increasing the number from therp-sight to 120, the object of such additional plans being to dony the legality of service processings which had been taken by the company, whereby the deliculate became lighter for an extension of the company of service of the solution of the calls not attending visit had not solved by the company, whereby the deliculate became lighter for eally not action of his parch sing his shores.

The foraction linears is the time of his parch sing his shores, notice of the pairs and contradiction of the relic and contradiction of the pairs. And contradict the color of Mr. Justice Wightman, whereas it was fee a different crimi and another rate, so that if it were greated, there were his feel to concernituring section and exist. At all events, the rule to plans, which had been quantified by the married polyge, regifts to be before the storic as as an action of the form the rate of the storic of these developes.

had been granted for the instruct judges, another the buffers the stored so as to sirry as the translations of their deviables.

Mr. Krant (sitte where was Mr. J. W. Smith) is engigent of the role, and their distributions with the color of the Janior Wightnesses, for they had taken severes precedings upon M, and if that noder were removable their proceedings weeks to require the color of the proceedings when the process of the proceedings about their severe precedings about their process for translation the role.

The Clear was the role of the process of the state pudges in the subject.

an access terms who could be an expected the other judges on the enhight.
The Chira's each they would strange the other judges on the enhight.
No. Ask at sood that is both the Courts of Common Press and Englesquer
most raise and have obtained, but they had not per been argued.

INFRINGEMENT OF PATENT RIGHT.

NOTAN COURT-JAN II.
WILEUM N. TIMBALL —This matter, for the compatital of the defendant flor the between of the expectation recursioning him from using the sink-law and

claims produced from assua-nut-ell, or the caudies unsamisetured from the clearine, which was ordered to stand over, with liberty to the defendant to file affidavits, was renumed, and, after a discussion between Mr. Femberton and Mr. Turner, Lord Languanta held that there had been a breach of the injunction, but that it was not willed, and he refused to commit pre-forms the defendant, who was about to appeal to the Lord Chancellor, but ordered him to pay the costs of his application.

SMELTING IRON WITH ANTHRACITE—INFRINGEMENT OF MR. CRANE'S PATENT.

MR. CRANK'S PATENT.

COURT OF COMMON PLEAS—JAN. 27.

CRAME T. PRICE AND OTHERS.—This was us betton on the case for the infringement of a patent granted to the plaintiff in 1836, for smelting iros by the use of antimetic, or stone coal, as fuel, such fuel being made serviceable, as a combustible material, by the application of a blast of air, heated to 600 degrees of Fahrenheit. At the trial the verdiet passed for the plaintiff, subject to the opinion of the court upon some points reserved; the points came on fir argument on Monday and Saturday last week, and were continued and concluded on Thursday, the 27th inst.—the Attorsey-General, Mr. Richards, and Mr. Smith appearing for the plaintiff, and Mr. Serjeant Bompan and Mr. Roche for the defendants.—The court took time to consider.

[A lengthened report, with the arguments of counsel, and the principal points of evidence, will be given on the Court delivering their judgment.]

TALACRE COAL AND IRON COMPANY-ALD. THOMAS WOOD.

TALACRE COAL AND IRON COMPANY—ALD. THOMAS WOOD.

BAIL COURT—JAN. 27.

CHAPPELOW, TAYLOR, AND HADDENBER. F. THOMAS WOOD, AN ATTORNEY OF THIS COURT, AND HADDENBER. F. THOMAS WOOD, AN ATTORNEY OF THIS COURT, AND ALDERMAN OF THE CITY OF LONDON.—Mr. ROERUCE moved in this case, on the part of the acting directors of at Fintshire coal and from mise company, the name of which it was not at tha time secessary more distinctly to state, against an attorney of this court, who, with his partner, had a short time since acted as solicitor to the company, calling on him to show cause why he should not deliver up certain papers, documents, and deeds, which had come into his hands, both in his partner and otherwise, and why he should not further answer the matters set out in the affidavits then brought before the court. In the early part of the year 1839, prospectures had been issued by certain parties, in which the establishment of the company in question was announced to the public, and what readered this case the more extraordinary, the name of the attorney against whom this proceeding had been taken, appeared at the head of the list of directore as their chairmans. At the asme time he and his partner acted as the solicitors of the company. After this announcement had appeared, an agreement was made by him and some others of these self-sleeted directors with a Mr. Leveson and Mr. Baker, for the purchase of their interest in certain coal and iron mines, which they held in Flintahire of Sie Edward Mostyn, under a peppercora rent, by which they were to receive 20,0001. In cash and 35,0001; in shares in the company. On the 3d of October following a deed was drawn up by this chairman and solicitor, by which he same interest was sold to the company for 110,0001. In order to induce he same interest was sold to the company for 110,0001. In order to induce he same interest was sold to the company for 110,0001. In order to induce he same interest was sold to the company is full practice, assumed the worst possible aspect. In the Deed o me within his grasp.
Mr. Justice Williams said, the doubt he had from the first was, whe-

Mr. Justice Williams said, the doubt he had from the unit was, whether, supposing the facts to be true, but upon which he intimated no opinion—but supposing the facts to be true, they certainly gave rise to a necessity for a much more extended inquiry in order to meet the public justice of the country, for the thing would be left in a lame and imperfect state, supposing the rule to be made absolute in all its parts; the answering the matters in the affidavita fell infinitely short of a public prosecution for a system of complicated frand, which would embrace all the guilty parties; but still, if the learned counsel was so advised to limit the proceedings, he saw no objection to the rule guilty.

learned counsel was so advised to muit the proceedings, he was as decision to the raise guing.

Mr. Korneck replied that such a proceeding, as recommended by the learned judge, would no doubt be quite proper, but he then had only to move against this person in his capacity of attorney, to compel him to give up the papers belonging to the company in his hands, but which he held as a lien, for less a sum than 9001, due, he affirms, to the partnership for costs. By and type he should be dealt self in modher form: a present he had but to answer why he withheld the papers intrusted to him in his complex functions of "chairman, trustee, vender, and solicitor." In his astuteness he had excussed himself, while chairman, from signing the bills issued to pay the debt incurved by the company, under the pretence that his partner would not permit him; and when at length another attorney for the company had been appointed, and it was subjected to a variety of actions in which it had been involved by him, he crowned its embarrassments by withholding the papers, which would be of the highest consequence in reabling it to know the true state of its affairs.

sepers, which would be of the highest consequence in the state of its affairs.

Mr. Justice Williams, after having again intimated that this case should rather be made the subject of an inquiry before a criminal court than of any other proceeding, observed that if the company were so advised he had no obsection to grant the present motion in the terms mentioned.—Bule granted so both grounds—to show cause why the deeds, documents, and other papers were withheld; and why he should not answer the matter set forth in the off-motion.

STAFFORDSHIRE COAL PROPERTY-ACTION FOR TRESPASS.

PADDOCK OF FORMER PLEAS - JAN. 28.

PADDOCK OF FORMER PLEAS - JAN. 28.

PADDOCK OF FORMER PLEAS - JAN. 28.

PADDOCK OF FORMER - The circumstances of this case have been already fully reported. It was an action against the representative of the Duchy of Lucanater, in the possession of coal mines in Staffordshire, for treepass, in entering typon the lands of a copyholder on the ducial masor to dig for coal. The verdict was for the defendant, and their lipidships this day gave judgment upon the rule nice since obtained to set that saide. — They discharged the rule.

DUDLEY AND MIDLAND GEOLOGICAL SOCIETY.

DUDLEY AND MIDLAND GEOLOGICAL SOCIETY.

The first ensural general meeting of this society was held at Dudley, on Menday, 17th inst., at which Lord Ward presided; the meeting was numerously attended, and the processings were of a highly interesting nature; the inaugural address was delivered by R. I. Murchison, Esq., President of the Geological Society of London, for which we regret we have not yet been shis to find occur, but to our sext we purpose not only giving that insertion, but offering some general observations on the formation of the society, and the influence it is likely to have in tending to the further presention of geological researched.

Several members of the acciety, resident in Walverhampton, met at Mr. Several members of the assisty, resident in Welverhampton, met a Beckett's residence on Saturder last, to discuss the propriety of exist a branch. There are already loays the Helechhampton Chrussicle; thirty members resident at Welverhampton, and it was considered the lasts branch were formed, it would not only be the means of comenting members, but would doubtless be an industrement for other gentlemes them, and thus strengthen the parent society. The immediate neighbound of Welverhampton is excentingly rich in fresh remained, and the hypothesions among the coal measurement for highly interesting. While I bosons its entire facility in the existing the coal measurement of highly interesting. While I bosons dischaling the coal measurement are highly interesting. highly interesting. t rocks, Wairecham and Luciaw form books its earlied ruther in the Welson's Vision of Grundison, as more immediately within her range. The Welverbampion fault and its connection with the Tenigley hills, the meth-ward extransion of that footh, with the new with the Tenigley hills, the meth-ward extransion of that footh, with the new worklangs in Welsonfatts, Williamhall, Bentley, Pelanil, Ac., are subjects of the Bigister interest to the geninglet, and of importance to the tenies and the South Vision to the Connection of the Con it encouragement and support.

New Properative Everys.—A Mr. Consider has invented a new englass, the uses of which, it is said, are likely to be highly important of railways—and senth on, indeed, as "entirely to expenseds" the machinery of work on the Blackwell and other railways, where eighteen miles of rope are constantly being wound and answend. The French Government have, it is further remnarmed, appointed a commission to resemble the engine, with a view, if approved, in a simple it to the term lines of read now if control of formation in that country. re in that sweatery.

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PROCREDINGS OF PUBLIC COMPANIES.

UNITED MEXICAN MINING ASSOCIATION.

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The half-yearly general meeting of the shareholders in the above ass ciation was held at the London Tavern, on Wednesday, the 26th inst.

Sir J. Earmore, Bert., in the chair.

The Secretary (Mr. Mather) having read the advertisement convening the present meeting, and the minutes of the last, which were confirmed, proceeded to read the directors' report and statement of accounts, as follow:

Proceeded to read the directors report and statement of accounts, as resown.

REPORT.

The directors, in reporting to the proprietors the circumstances that have taken place since the last hair yearly general meeting, and also the present state of the affairs of the association, beg leave, in the first instance, to call their attention to the mine of Rayas, the result of the operations in which have been as follows—wix, for the first six months, any, from its January to 30th June last, up to which latter date the half-yearly accounts were, as usual, made out and settled with the owners, the animon of outing was.

Results and Results a

#34,629 V 6

Prom which amount of ascets of 10,7550. 18s. M. is to be deducted the fullowing same, since paid—vir., to sensity persons, being creditives, on the 31st December last, 2561. 16st, for sonstree, 171. fos. 1st.—2561. 6s. 1st., and the findicities are 16,1787. 11s. 5d.—Auxiliary capital, in course of payment, unclaimed, 1621. 10s., red scrip, sitts situs, 2604.—2821. 10s.—Leaving a surplus of west. Is. 5d.

A Paorankron inquired how the 21,000 dollers were axeed by giving up the mine?—The Chairman replied to that and several other questions, that it was by giving up the contract before the time had express, as they were losing weekly; it was only by works of recearch that a profitable result could be obtained, and Mr. Shoolbred was doing right in not entering into any expressive researches before he was certain that the contract for a new lesse would be entered into, as if any important discovery were made it would be to the advantage of the owners to refuse such contract for a new lesse would be entered into, as if any important disencery were made it would be to the advantage of the owners to refuse such a
lesse, as it might be worth their while to work the mine themselves; in
that case the debt of 990,000 dellars, or about 185,0004, due from the
eworkings, and the company would have to be paid out of the profits of the
workings, and the company would have power, by the Mexican law, to
place a superintendent to see that a certain portion of such profits was
applied to liquidate each a debt; the materials, stores, and cash on hand at
the mine were-valued at 60,0001, which they would be obliged to purchase,
as it could not be worked without them, and notody could supply them
so cheaply; that was the company's accurity for 6x value of their stores;
the remainder of the English debt was 3d,0001, red scrip—the directors
had paid off several of the company's debts, amounting to about 78,0001;
the establishment will be reduced as much as possible in one of a refusal
on the part of the owners of the mine to enter into a new contract, as conmeany must be the order of the day, and if a new contract should be entered into it would be to each an effect that as further call choold be entered into it would be to each an effect that as further call choold be made

on the proprietors. Mr. C. Faanza requested to know if the agreement required th store to take the materials of a valuation /- The Cutaraway replied that there was no obligation, but the owners could not obtain the name series or cheaply anywhere clar.—The report was then unanimously adopted .- Thanks were roted to the chairman and directors, and the meeting adjourned

GREAT WHEAL CHARLOTTE MINING COMPANY.

The balf yearly general meeting of the elevablers in the shore com-pany was held at the Goorge and Valters Tovers, on Monday, 24th inst.

G. B. Cane, Esq. in the chair.

The afvertisement exceeding the meeting beeing been read and confirmed, the Constant and that some of the proprietors could feel more disappointed with the result of the lost all acceptar's working then the direstors, and it was necessary to reise further required to corry so the mine; Mr. Zeylar had used up from Cornwall, and would give the shouldess each information as he throught would worsen that mores; it remained, of emerge, with the proprietness to decide what stops aloud to takes; for his part, if there absorbened the some, he would conside his absent of what was laft, or if they agreed to continue their reservice he would be equally while g to anisorabe his shows of the new regular to be raised; he was a beguing to exist at showshallow, halfing shows to the extent of one-tenth

Mr. Nanna than read a report from Captains W. Francis and T. Ri-

barries.

Aux. 15.--35pring impressed this mine to-may, at pint regions, we saw beg to

hand you car report thereon. The engine shaft has been sunk about eight feet below the eighty two fathom, loved, but its shafting has lately been suspended, and, as we think, properly so, until some further discovery is made at the eighty-two fathom level. If the eighty-two shash different athhome above extended cast and twenty fathoms won't, the looks grenerally is large, but unproductive, especially easily mark the looks of ore ground gone down in the loved new output to have been med with before now; and it consequently follows, that a falling off in the prespects of the mine, in that direction, has father place. The level castward has been advices on the morth part of the lock for some fathons in levelth, we would now recomment that the neutral part of the lock for some fathons in levelth, we would now recomment that the neutral part of the lock for some fathons in levelth, we would now recomment that the neutral part of one of the lock, on the whole, is more favourable than it has hitherto hous. The severally two fathons, and the appearance of the lock, on the whole, is more favourable than it has hitherto hous. The severally two fathons level were has been sends a few fort make the appearance of the lock, on the whole, is more favourable than it has hitherto hous. The severally two fathons level were has been sends a few fort make this sevel, about six feet farther work than the east of the eighty-two fathons level were now is, here the lock is large, and is producing four or the tous of one per fathons; he water has heldly provened in stopes in the bottom of the severally two fathons are lock. When the held provened has been sends a few fort make this sevel, about six feet farther work than the east of the eighty-two fathons levels income of the several producing four or the tous of ove per fathoms; the water has heldly provened in stopes in the bottom of the severally two fathons; the water has heldly provened in stopes in the bottom of the severally two fathons in the lock is greater and in the several

hat we think timir value will be full 2004, at the expiration of six months.

W. PAANCIS. J. RUBARDS.

A report was then read from Mr. R. Taylor corroborative of the above. Mr. Taylon, in reply to several proprietors, stated that the frost had much retarded the washing of ore for the last month, and which had caused so small a quantity to be assaplied, but there was now from 180 to 190 tone searly ready for sale; the changes which all mines were subject to had seriously affected the raisings, and those changes were more apparent where there were only two or three levels, as in this case, than when there were 100 levels, for when there were so many new discoveries being constantly made they compensated for the deficiency occasioned by the failure of other parts of the mine; everything appeared favourable in the 182 fathous level, and it would, doubtless, turn out three toms per fathous; they were shout twenty fathous from the shaft in the 182, and shout fifteen in the 172 fathous levels. He then entered into some technical explanations about the different levels, exemplifying them by diagrams, and concluded by caying that Captaine Francis and Richards had stated that the prospects of the 182 fathous levels, exemplifying them by diagrams, and concluded by caying that Captaine Francis and Richards had stated that the prospects of the 182 fathous levels, exemplifying them by diagrams, and concluded by caying that Captaine Francis and Richards had stated that the prospects of the 182 fathous levels, exemplifying them by diagrams, and concluded by caying that Captaine Francis and Richards had stated that the prospects of the company and the prospects of the company and the company in the creation of on additional capital, and, after many plans had been proposed, the following string of resolutions for that purpose was unanimously carried i—

Resolved, That it is expedient that further capital be raised for the purposes of the company, and the holisters of the present shares the father of the company.

That the holist A report was then read from Mr. R. Taylor corroborative of the ab

Thanks were then ununimously voted to the chairman and directors, and the meeting broke up.—[Another meeting will be shortly held to confirm these resolutions.]

LIVERPOOL AND MANCHESTER RAILWAY.

BYM three rescusions.)

LIVERPOOL AND MANCHESTER RAILWAY.

The half yearly meeting of the proprietors of this company was held in Liverpool, on Wedoraday, the 26th instant, Mr. Charles Lawrence claimmen of the heard of directness) presiding.—The Nucentrant read the half-yearly report of the concern, which commenced by alluding to the calating distress and embarranement, and to the influence which they had on the concern. The report included a statement of the necessary from which it appeared that the receipts were, for the past half-year, in the concluding department, co.,5661. 1st. 781, in merchandise department, 51,9781. 19s. 11d.; coal department, 20061. 3s. 6d.—Total, 137,8861. 7s. 19s. 11d.; coal department, 20061. 3s. 6d.—Total, 137,8861. 7s. 19s. 11d.; coal department, 20061. 3s. 6d.—Total, 137,8861. 7s. 19s. 11d.; coal department, 20061. 3s. 6d.—Total, 137,8861. 7s. 19s. 11d.; coal department, 20061. 2s. 7d. The number of shares catified to a dividend of st. 19,199 benefied pound charge. The directors recommend a dividend of 51. per share, assuming to 60,4561.; after the proposed interest on 5100 segional 1001. shares, 11d. per charge, 51001.; and on the 5100 first quarter charges, 2s. per share, 5104.—total, 66,0601., which bring deflucted from the next half-year's account.

DUKE OF CORNWALL'S HARBOUR AND RAILWAY COMPANY DUKE OF CORNWALL'S HARBOUR AND HAILWAY COMPANY. The half-yearly proceed meeting of the propeletors of the above company was held on Thursday, the 27th inst., of the London Tayers. The nelvertisement calling the meeting having been read, and the minutes of the last confirmed, complaints were made his that the arbitrater should not, after more than twelve meenthe, have made his newest, and ultimately a rescultance were measurement, so the company rendered it desirable that the matters is dispute should be operably soltied, and that the solicites of the company to requested in emmunecicate this receivable to the arbitrature, the failure and decrease on part of the properties readering the winding up the affairs of the company more concrete to the remainder.—It being, after some one remains, agreed that this meeting should not be of possess, the properties of the relief by the directors when the amount of the properties of the control of the directors when the amount of the properties of the control of the directors when the amount of the properties of the control of the directors when

SOUTHAMPTON DOCKS COMPANY!

A openial general mosting of the charekedders of this company was look of the efficient, in Blokkepopular-attend within, on Monday the yesth instead, for considering the program of applying to Parliament for power to raise an additional life, 1900. For completing the decke, for converting the program of a polying to Parliament for power to raise additional life, 1900. For completing the decke, or converting the present share list of life, 1900. For completing the decke, for converting the present share list of life, 1900. For completing the decke, for converting the present share list of life, 1900. For converting the condition of the obtained. The class was taken by J. Leuners, Eeg., who catered very fully late the source of the weakertaking, and the advantages it would not be residented. The class when we can complete measure is maken the line, 1900. Mark the source of the endounce is waited the line, 1900. We would not be residented, and chips and by Mr. Returnant of the endounce less than the endounce had been considered by premising for an adjustrament of a furtacipit, in consider the nullicet. Mr. Colley (the engineer) wend into particulars outside the substance. After a long discussion between the proprietors and the discretion, the resolution, contending the objects of the magnitury. The appeared from the endangers of the magnitury, was control by a long neighbory. It has seen any of the less than the proprietors and the late call, and that out of the father arginal absence of the source paid upon for the less call, that is the proprietors mad the new paid upon by 161 proprietors mad also be said, and the decement enters of this, and the formation absence on the late, and the formation when the proprietors of the late to the formation absence of the late to the late to the late to the continuent of the late to the proprietors of the late to the late The chief was taken by J. Livinium, Roy., who entered seer fully lake the section of the undertaking, and the edwardership beed out to the ground adjusted to the consequence of the undertaking, and the edwardership beed out to the ground adjusted to the consequence out of the undertaking, and the edwardership beed out to the ground adjusted to the consequence out and adjusted to the consequence of the decimal of the consequence of the edwardership to the consequence of the continued by Mr. Her maken, who entered very fully late the library of the continued by Mr. Her maken, who entered very fully late the library of the continued by Mr. Her maken, who entered very fully late the library of the continued by Mr. Her maken, who entered the configuration of a further the remains the remains and constituted by precising for on any investigation of the decks, and constituted by precising for chart of facility. It was experiently we chart the religion of the decks, one of which, it was experiently which the consistence of the decks, one of which, it was experiently the proprieties.—After a long discontinue to the proprieties and the discontinue, continued for the statement of the section, which is continued to the proprieties.

It is not.

I

UNION BANK OF AUSTRALIA.

A special general meeting of the proprietors of this company was held of the office, 30, Chi Brood-street, on Wednesday, the 26th inst. J. B. Smith, Esq., presided. From the report it appeared, that the accounts received from New South Wales and Van Dieman's Land since July last were highly satisfactory. The amount of undivided profits to June last was 46,3201.8s. 6d., to which sid the profit of the last half-year, less the expresses of the branches and in London, amounting to 33,564. 10s. 7d., which left a balance, after farther deductions, of 54,785. 5s. 1d. of undivided profit. The result of the foregoing statement cambied the directors to declare a dividend of 38s. per where on the original shares, and is the second zeries 10s. per share, which was after the 1ste of 10 per cost. per anuum; the reserve fund balance to the end of December was 15,1981. 6s. 6d.—Mr. Boundalla moved the adoption of the report, which was carried unanimomaly.—A discussion took place between the directors and Mr. G. R. Robinson, Mr. Mader, Mr. Nicholis, and others, during which the Chalinan mid it was their intention to apply for an act of Incorperation.—After votes of thanks to the London and colonial directors, two new directors were elected by ballot, after which the meeting adjourned.

QUARTERLY PUBLIC SALE OF BRITISH TIN

QUARTERLY PUBLIC SALE OF BRITISH TIN.

The announced quarterly sale of British tin, by order of the Governor and Company of Copper Miners in England, took place on Thursday, the 27th instant, at their house, in Old Broad-street, Mesers. Short and Mahony officiating on the occusion. There were no less than 1098 loss; each lot, with the exceptions of ingot and bar-tin, being confined to five blocks—in the tree exceptions the lots being each one ton. The whole quantity which was thus sobmitted was 1000 tons, as follow:—Best granulated tin, 10 tons; heat grain, 45 tons; tin-plate grain, 108 tons; refined, 154 tons; cemmen, 393 tons; ingot, 190 tons; and bar. 100 tons. Of this quantity not more than one-fifth was sold, the principal part of which was common block, at prices varying from 63s, to 66s, 6d, per cwt.; the terms of payment being—deposit 10d, on each lot, with prompt 27th Aprili—no interest or discount—and deposits payable this day. In consequence of an apathy on the part of buyers, the whole of the lots were not put up, and the sale adjourned until that day fortnight, the 10th February, to take place at twelve o'clock. The resum was well attended, and we understand, since the mic, several private bargains have been effected, reducing the quantity to be submitted at the adjourned day of sale, the company contining their sales, for the quester, to 1000 tons, which are, according to their regulations, first submitted at public ametion, and the quantity, if any, remaining from the sale subsequently sold by private contract. Some remarks on this sale will be found in mother column.

IMPROVEMENTS IN GENERATING STEAM.

tion, and the quantity, if any, remaining from the sale subsequently sold by private contract. Some remarks on this sale will be found in another column. IMPROVEMENTS IN GENERATING STEAM.

(Rectification of the patent granted to Chories Fiuot, Liverpoot, elsestist, for his towardinn of improvements in appring frost for generating steams, for general manisprovements on a propring frost for generating steams, for general manisprovements and output in the consequence of the propring show, holiers with hot water, the sale improvements made upon a former invention; and, secondly, in an improved methodrof supplying steam-boliers with hot water. The description of the apparatus and means by which the invention is carried into effect, is described at great length in the specification. For own, therefores, only give a general idea of the proposed plane, and the claims set facts by the patents, and the contract of the proposed plane, and the claims set facts by the patents, of the proposed plane, and the claims set facts by the patents, of the proposed plane, and the claims set facts by the patents of the proposed plane, and the claims set facts by the patents of the proposed plane and plane in the patents of the proposed plane, and the claims set facts by the patents of the proposed plane and plane in the patents of the proposed plane in the facts of the patents of the pat

if the experiment new making to use cool tentered of soke, in their sissen-engine furnesses, by the optionains of Hall's emoke-communing superators, closed section. Of this there is the most confident expectation, from the experiments that have already been made at Lorda within the last ten days. —The Lorda Intelligeneous states, that, with a view to preserve the va-leable information communicated at the recent meeting of Lorda, and to extend its machiness to other parts of the himpions where it is equally wanted, the committee them appointed here requested Mr. William West, the chamics, to draw up a short extensory of these and of any other known cooles of preventing or communications, at all as a positive known the investion, date of introduction, where the "specification" is to be freezi, the mode of operation, description of testimensis, agents appointed. from J. the sends of operation, description of testimersals, agents oppositely, places where each every be even to operation, used of petent right, of appearing and of overtion, with directions where more minoria information each from which the will force a pampidet of moderate societies, from which perfor perspecting to event or other bullets will be combined, with case, to

body of 1,000,000 exhic feet would amount to a stream of six filling that area, and so less than 160 miles in length; so that, if the furnace economical a ton of coals in the hour, the curvent of six or drought most gaze in at the raise of 160 miles an hour, and, economically, it will have to pass at double the appet through the sease ortifice. I might quote many other authors for a similar confemeding of the application of hot air to the constantion of gazeous master with that of solid anthracite or robe, as in the iron manufacture. One writer, after enlarging on the supposed advantages of hot air, observer. Thus the process acquires many of the well-known advantages belonging to the hot air hiset, as used in metallurgic operations." It is this confounding the two processes so essentially different as the combustion of solid and gazeous bedies that has led to such anomalies. At the late meeting at Lecks, one of the patentess disputed the point as to the use of hot air, and said he now beard it, for the first time, stated to his carprise, that had always unfavourable to combustion. I replied, that my objection lay to its np. objection to the combustion of gazeous matter, and not to that of sould coke. I will now illustrate the effect of thus raising the temperature of the nir in our boiler furnaces, by reference to the build or volume it assumes under this heating process. I now exhibit a diagram, describing three bindiers or bags, each containing the same quantity of air, supposed to bejoing raise, of which, of course, is will be oxygen. The first bag, being one third filled, represented the air at a temperature of 60 jbus 400-540; and the third bag at a temperature of 60 plus 400 plus committy although they present such different relative being one-third filled, the second two-thirds full, and the third quite full; will be early and these three bags contain precisely the same quantity although they present such different relative being that part by weight of enzygen, and twenthere times of oach, we have large yes it is coping a seedful in effecting combustion; the contents of each term wight parts by ready and the search of the contents of the combustion of the contents of the con

the preservances remonstrated by Mr. Williams shearing, that brush being an expected province in formacient, towns their residence and head-like gas as it passed over; the level bridge (containing winter) proming a discontributive appearing stated. We consident sources the formacient is nearly brush and spectral the formacient properties that, by desting it before admission to the formacie that provide the alternative sources and but the alternative that provide the alternative that provide the alternative that the satisfaction of the formacient reaction the nitrogen in the sit from section, shows the temperature of the forpoints. —Mr. Williams throught for effect execut to the closer way; we consider
sect that whether the active-gene were were temperature to a very high temperature; both the suppose and nitrogens were breaked, which is eight each be normature;. —In the site only the high to personal the single temperature; both the suppose and nitrogens were breaked, which exight each be normature;. —In the site of the mail the presenguest on the administration of world only so retard assume at the gate remosenguest on the administration of world only so that, if there ware a dissolvantage
is the both are at to the ball, there angels to a removerable contracting of feed, sold, there are not to be a series of the each of the site.

When he harders experiency the foretainer—it was a series exhibiting of Peter to pay
Free! The general whose was that the head which was in torsees the harder
below the thinners. But the thin was there are accessed or bead to the othersory
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beganed what was required by the drawaght! If the foresteen did the example
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fine is not the street exemption. He are the second to the shinners
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fine is not been proposed, the second or bear to the fine was to the second or the shinners, and the
fine is not the foresteen. — This was accounted only were discussed to the shinner
was another in the foresteen. — This was accounted to the common to the foresteen as Livershoot when the second of the foresteen as a second or the second of the foresteen as the shinners of the shinners as the second of the shinners of the shinners of the state of the sold of the second of the shinners

This was another of the

onygen; and in probably would not fled and units with many of these, during the short time the gas was passing through the formane.—Bir. Walliams ould, that was exactly the same; the gas lost the temperature very foot, and nations the gas and cayges came in contact atom to atom before the gas was enoied down, it was uscless. It had been proved that the hother the gas was enoied down, it was uscless. It had been proved that the hother the gas was enoied down, it was uscless. It had been proved that the hother the gas was enoied showed the advantage of the host-blood for senting iros, and its insufflity in heating gas in the farmace—he meant the appetite heat of the sir. A given weight of hot sir, souling down one degree Fahrenbeit, would raise the temperature of a noils body many degrees; but the same volume of het eir would produce a very trifling effect in heating the gas, because most of the combostible gases had such more specific heat than atmospheric air, so that the volume of het air enoising down one degree would not ruise the temperature of the gas more than a very small fraction of a degree. Hydrogen (one of its principal constituents) had a very trifling heat, in addition to what the gas had already attained in the farmace.—Br. Ha.ack having adverted to the soler lessop as being constructed on the principle of supplying hot sir, Mr. Walliams said, he thought the advantage there arose from the heat radiating downwards from the dome or cup, heating the gas, and the air being projected with an increased current against the flasse, thus bringing more into contact in the same time. All the heat given to the sir by the apparatus would be but insignificant and ineffectual.—Dr. Bl.ack said he referred to the oil amy.—Mr. Williams and, Dr. Ure had given a valumble paper on heating the oil, in which he etated, that a greater light was obtained from the increased fluidity of the oil, owing to increase other a valumble paper on heating the oil, in which he otated, that a greater light was obtained from the locrea the thanks of the meeting were unanimously voted to Mr. Williams valuable and interesting communication.—The Charlaman, in prote, said, Mr. Williams was so clear and happy in his mode of examination, that they were all highly indebted to him; and he is would not be the last communication he would make to the gallie Williams acknowledged the vote, and the proceedings terminated.

LAW INTELLIGENCE.

DISPUTED RIGHT TO RENEWAL OF LEASE.

DISPUTED RIGHT TO RENEWAL OF LEASE.

VICE-CHANCELLORS' COURT—JAN. 24.

WALKER P. JEFFREYS.— HIS HONOUR finally disposed of this case; he had on a foctor day expressed himself disposed to direct two issues no to the drowning out of a mine. The plaintiff and rested his right to relief on two grounds—first, a covenant for renewal; and, secondly, on a trust to great a lease; as to the former, he thought the delay of the plaintiff is not demanding a lease would, or might, have barred his right to relief had the case depended on the covenant for renewal and, but, recollecting the second ground, he isle not think the delay ought to be a bar, provided that the plaintiff, or those under whom he claimed, performed their part of the lease. He had now to determine whether, upon evidence, which he had already stated was unsatisfactory to himself, the leasees had made wiful default in the performance of the covenant of the leases. The question was, upon which of the parties the onus rested of giving the information required. He thought it hay upon the plaintiff himself. Up to 1815 the leasees had worked the mines and gaid royalties; is that year they crusted to do so, and became chargeable with brench of covenant, unless it could be shown that it was not by their willing default to mines had become drowned out. After carefully considering the swidence, he felt himself compelled to any, that the plaintiff's bill ag the svidence, he felt himself compelled to say, that the plaintiff's bill et be dismissed, and with costs.

CASTERN COUNTIES AND NORTHERN AND EASTERN RAILWAYS.

COURT OF EXCHEQUES—JAN. 26.

The segments in the case of the ATTORNEY-GENERAL C. THE EASTERN AND NORTHERN AND EASTERN RAILWAY COMPANIES, which was partheard on Monday, and involved a question as to the right of the companies to street a station and other buildings connected with the railway over a public generage, called Goddard's Rests, was resumed at the sitting of the court this midrate, and concluded. As the case was sent to the Lord Chanceline. mirning, and concluded. As the case was sent by the Lord he opinion of the court, Lord ABINIES intimated that the b ed Chan ify to the Chancellor their opinion on the case submitte og the present term.

MONMOUTHSHIRE IRON AND COAL CO .- ACTION FOR CALLS

MONMOUTHSHIRE IRON AND COAL CO.—ACTION FOR CALLS.

CHURT OF COMMON PLEAS—JAN. 26.

ARENNES S. L. MORREY.—This was ma action of debt, brought by the orcretary of the Minamouthshire Iron and Coal Company, to recover from the
dyfuniant the sum of 100f. for calls of 2f. 10s. per share upon airly shares
held by him in the undertaking. The declaration stated that the defendant
was the properties of sixty shares in the capital of the company, and it then
set farth that be, being such properties, scaled and solverthed the indenture
of actions they which the company was originally constituted, and that he
covernanted with the trustees of the company that it should be lawful for the
board of directors to make calls as often as they thought fit upon the propricture of settlement meastimed, and thereby exempted from the payment of calls. The docimention then alleged that certain persons, being a
regularly constituted board of directors, made a call upon the propertions
also expect of his sixty shares in the capital of the company, associated to the
association of the indentured extraction of directors, on the democracy, associated to the
association of the company, associated to the
association of the company of the found that the
avenue of 10st. To this deviseration the defendant democracy, contended, in the

sum of 1505. To this deciseration the defendant demogrand.

Mr. Serjeant Channella, in support of the demogran, contended, in the Reit plane, that the action was not rightly brought by the plaintiff, as seventary of the company, but should have been brought in the names of the treaters mantioned in the Land of Nettlement. Becondity, he submitted that the likelihty of the declaration was not sufficiently stated on the face of the devianation. There was no allegation accreting that the shores held by the defendant were not part of the exempted shares. Again, it was not stated that there must have not alregation accreting that the shores held by the defendant were not part of the exempted shares. Again, it was not stated that there must have not alregate the date of the Deed of Suttlement and the day on whigh the end was to be paid, the date of the deed being laid under a collabore.

Mr. Srejeast Sturman, on behalf of the plaintiff, controled that the acon was well brought by the serviney of the company, and, further, that the degetions in the declaration were refficient to show a limbility on the part fine defendant.—The Cut'ny book time to consider.

BRITISH IRON COMPANY-ACTION FOR CALLS.

CHERY OF RURAN DESCRIPTION OF RURAN DESCRIPTION OF STREET OF STREE ust, for paramet of only which had been made by the core, in respect of our term shares in the exponentageous boild by the defendant. The defendant pleaded in the action, and after where white next an order of $M_{\rm P}$. Justice W ightman to term stanes in the each company hard by the definedand. The definedant primited in the actions, and affire where withs into my an evolve of Mr. Justice W gateman to be adjuved to put in either pleas. Subsequently a rain was obtained by Mr. Kelly radiing on the plaintiff to cheer course why the defendant choused ten to permitted be sold cartests wither pleas, increasing the another from thirty-origid to 120, the object of could additional pleas being to dray the legality of rer-tain processedings which had been taken by the company, whereby Mr. dr. Staning processedings which had been taken by the company, whereby Mr. dr. Staning to the course of the course of the draw and the stanes. The finance matrices at the titus of his parcet, teng the taken, increased of following the finance trades of the titus of his parcet, teng the taken was a rain for colors and the mate, and continued and the colors of the finance of the rain, and then the finance of the rain, and then the finance of the rain, and the finance of the rain, and the total colors owner on the finance of the rain, and then the finance of the rain, and the colors owner contributed these processed on the color owner contributed their sold before the course.

The Course the finance the course.

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The Courar sold they would maked the other judges on the entirest.

Mr. Kell's and that is both the Courts of Common Pows and Enchanges
sold rains had been etizance, but they had not yet been atgreed.

INFRINGEMENT OF PATENT RIGHT.

WILKEY T. TINGALL.—This modern, for the compatible of the defendant for the black of the injunction resumming him from using the circums and

elaise produced from assen aut oil, or the candles massifictured from the stearine, which was ordered to stand over, with liberty to the defeadant to file affidavits, was resumed, and, after a discussion between Mr. Pemberton and Mr. Turner, Lord LANGDALE held that there had been a breach of the injunction, but that it was not wilful, and he referred to commit pro forms the defendant, who was about to appeal to the Lord Chancellor, but ordered him to pay the costs of his application.

SMELTING NEW CO.

SMELTING IRON WITH ANTHRACETE—INFRINGEMENT OF

MR. CRANE'S PATENT.

COURT OF COMMON PLEAS—JAN. 27.

CRANE'S PRICE AND OTHERS.—This was an action on the case for the infringement of a patent granted to the plaintiff in 1836, for smelting iron by the use of antiractic, or stone coal, as fuel, such fuel being made serviceable, as a combustible material, by the application of a blast of air, heated to 600-degrees of Fahrenheit. At the trial the verdict passed for the plaintiff, subject to the opinion of the court upon some points reserved; the points came on for argument on Munday and Saturday last week, and were continued and concluded on Thursday, the 27th inst.—the Attorney-General, Mr. Richards, and Mr. Senith appearing for the plaintiff, and Mr. Serjeant Bomand concluded on Thursday, the 27th inst.—the Attorney-General, Mr. Richards, and Mr. Smith appearing for the plaintiff, and Mr. Serjeant Bompas and Mr. Roche for the defendants.—The court took time to consider.

[A lengthened report, with the arguments of counsel, and the principal points of evidence, will be given on the Court delivering their judgment.]

TALACRE COAL AND IRON COMPANY-ALD. THOMAS WOOD.

TALACRE COAL AND IRON COMPANY—ALD. THOMAS WOOD.

BAIL COURT—JAN. 27.

CHAPPELOW, TAYLOR, AND HANDESPUR. C. THOMAS WOOD, AN ATTORNEY OF THIS COURT, AND HANDESPUR. C. THOMAS WOOD, AN ATTORNEY OF THIS COURT, AND ALDERMAN OF THE CITY OF LONDON.—MY. RORNEY OF THIS COURT, AND ALDERMAN OF THE CITY OF LONDON.—MY. RORNEY moved in this case, on the part of the acting directors of at Filatshire coal and Iron mine company, the name of which it was not at tha time secessary more distinctly to state, against an attorney of this court, who, with his partner, had a short time since acted as solicitor to the company, calling on him to show cause why he should not deliver up certain papers, documents, and deeds, which had come into his hands, both in his official capacity and otherwise, and why he should not further answer the matters set out in the affidavits then brought before the court. In the early part of the year 1839, prospectuses had been issued by certain parties, in which the establishment of the company in question was announced to the public, and what readered this case the more extraordisary, the name of the attorney against whom this proceeding had been taken, appeared at the head of the list of directors as their chairman. At the same time he and his partner acted as the solicitors of the company. After this announcement had appeared, an agreemest was made by him and some others of these self-elected directors with a Mr. Leveson and Mr. Baker, for the purchase of their interest in certain coal and iron mines, which they had in Flintshire of Sie Edward Mostry, under a peppercor reat, by which they were to receive 20,000. In cash and 35,000L; in shares in the company. On the 3d of October, the same interest was sold to the company for 110,000. In order to induce persons to enter into this company, it was stated in the prospectuses that no one joining in it should be liable beyond the amount of his shares—a fallacy segment in the most of the company of the head of the worst possible aspect. In the Deed of Settlement

independent of them. He thought but of sharing the spoil which must have come within his grasp.

Mr. Justice Williams said, the doubt he had from the first was, whether, supposing the facts to be true, but upon which he intimated no opinion—but supposing the facts to be true, they certainly gave rise to a necessity for a much more extended inquiry in order to meet the public justice of the country, for the thing would be left in a lame and imperfect state, supposing the rule to be made absolute in all its parts; the answering the matters in the affidavits fell infailtely short of a public prosecution for a system of complicated fraud, which would embrace all the guilty parties; but still, if the learned counsel was so advised to limit the proceedings, he saw no objection to the rule guilar.

iesraed counsel was so advised to limit the proceedings, he saw no outermake the rule going.

Mr. RORBUCK replied that such a proceeding, as recommended by the learned judge, would no doubt be quite proper, but he then had only to move against this person in his capacity of attorney, to compel him to give up the papers belonging to the company to his hands, but which he held as a lien, for no less a sum than 9001., due, he affirms, to the partnership for costs. By-sand bye be should be dealt selft as mother farm, a present he had but to answer why he withheld the papers intrusted to him in his complex functions of "chairman, trustee, vendor, and solicitor," In his astuteness he had excused himself, while chairman, from signing the hills issued to pay the debts focured by the company, under the prefence that his partner would not permit him; and when at length another attorney for the company had been appointed, and it was subjected to a variety of actions in which it had been involved by him, he crowned its embarrassements by withholding the papers, which would be of the highest consequence in caabling it to know the true state of its affairs.

papers, which would be of the highest consequence in enabling it to know the true state of its affairs.

Mr. Justice Williams, after having again intimated that this case should rather be made the subject of an inquiry before a criminal court than of any other proceeding, observed that if the company were m savised he had no objection to grant the present motions in the terms mentioned.—Rule granted on both grounds—to show cause why the deeds, documents, and other papers were withheld; and why he should not answer the matter set forth in the Market. STAFFORDSHIRE COAL PROPERTY-ACTION FOR TRESPASS.

STAFFORDSHIRE COAL PROPERTY—ACTION FOR TRESPASS, COURT OF COMMON FLEAR—JAN. 28.

PADDOCK C. FORKSTER.—The circumstances of this case have been already fully reported. It was an action against the representative of the Dachy of Loncaster, in the possession of coal mines in Staffordshire, for truspass, in entering upon the leads of a copyholder on the defall manor to dig for coal. The verdict was for the defaudant, and their lordships this day gave judgment upon the rule size since obtained to set that naide.—They discharged the rule.

DUDLEY AND MIDLAND GEOLOGICAL SOCIETY.

DUBLEY AND MIDLAND GEOLOGICAL SOCIETY.

The first annual general meeting of this esciety was held at Dudley, on Monday, 17th isat., at which Lord Ward presided; the meeting was sumerovsty attended, and the precessings were of a highly interesting nature; the inasquest soldress was delivered by M. I. Murchison, Equ., President of the Geological Society of London, for which we regret we have not yet been able to find room, but in our next we purpose not only giving that insertion, but offering some general observations on the formation of the secrety, and the influence it is their to have in tending to the further promotion of geological researches.

indisease it is many to nave in terror researcher.

Several members of the society, restlight in Walverhampino, met at Mr.

Berchett's residence on Saturday last, in discuss the propriety of cetablishing a branch. There are already (any the Holorobampino Chronicie) analytically assumed to resident it was considered that if a himal branch were formed, it would not easily be the means of crementing the members, but was id doubtless be an industreent for other gentlemen to join them, and then strengthen the parent society. The immediate neighbourshood of Weiverhampion in exceedingly rich in fossel remains, and the beautiful protrusions among the real messages are highly interesting. While Desliey protrucions among the real messages are highly interesting, protrucionas among the read measures are highly interesting. While Jeries in the Wesherd rocks, Westerhampton mary cisis those of Sodgley, including the Aymestry and Ladder formations, or met inspecification visits her range. The Welverhampton family and its connection with the Sodgley hills, the contributed extension of that facilit, with the new weekings in Welverhampton family and its connection with the Sodgley hills, the contributed extension of that facilit, with the new weekings in Welverhampton family, with the new weekings in Welverhampton family. Beneficy, Pelonii, So., are subjects the Bighest inspects to the gravity alone, with the benefit family, its cross family successful to the second to the term and emperimentary and the contributed as which is forced the thirty could forced an inscribenching moses themselves, because the read spain the attentions of the non-lety. As the Deality members or corrupted with their same is more immediate district, it induces the activative mose is secured district. It induces the activative mession where the committee mose is more insurable district, it induces the activative mession of the terms of the transition of the non-lety. As the Deality members or corrupted with the interestion of the non-lety, it in factors the activative mession of the surface of the surface and registrate districts of the remainder the term of a province of the country is further this view, a province of consumentary and in the largest a general mention of encountribute of the resident members, and in the largest a general mention of the radical active and efforts well for the branch as engre, expectating will be called, active and for well for the branch as engre. encouragement and express

New Panesares-Esuces.-A Mr. Conder has invented a n gins, the same of which, it is said, are likely to be highly important railways—an much so, indued, as "antiroly to supersede" the machine at each on the Biackwall and other railways, where eighteen uniterappe are accordantly being wound and unevaned. The Franch Government best, it is forther removered, appointed a commission to remains the gine, 485 a view, if approved, is adapt it to the new lines of reed so

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PROCEEDINGS OF PUBLIC COMPANIES.

UNITED MEXICAN MINING ASSOCIATION.

The half-yearly general meeting of the shareholders in the above association was held at the London Tavern, on Wednesday, the 26th inst.

Sir J. Earmora, Bart., in the chair.

The Secretary (Mr. Mather) having read the advertisement convening the present meeting, and the minutes of the last, which were confirmed, proceeded to read the directors' report and statement of accounts, as follow:

REPORT.

The directors, in reporting to the progretions the circumstances that have taken place since the last half yearly general meeting, and also the present state of the affairs of the association, beg leave, in the first instance, to call their attention to the mine of Rayas, the result of the operations in which have been as follows—viz., for the first six months, say, from let January to both June last, up to which latter date the half-yearly accounts were, as usual, made out and settled with the owners, the amount of outing was.

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From which emount of senets of 10,2000. 19a. 5d., is to be deducted the following means, since paid—vir., to smooty persons, being creditors, on the sixt December last, 25cf. 16th., for smoother, 17c. 6a. 1cd.—25cf. 6a. 1cd.—25cf. 6a. 1cd.—25cf. 1cd., and the liabilities are 10,128cf. 11s. 5d.—Acasizia.y capital, in course of persond, unclaimed, 14cf. 1co., red scrip, 45th 45th, 45cf.—25cf. 1co.—Lawing a surplus of 8000 to 1. 2d.

A PROPRIETOR inquired how the 21,000 dollars were asved by giving up the mine?—The CHALMAN replied to that and several other questions, that it was by giving up the contract before the time had experd, as they were losing weekly; it was only by works of research that a profitable recent could be obtained, and Mr. Shoothred was doing right in not entering into any expensive researches before he was certain that the contract for a new lesse would be entered into, as if any important discovery were made it would be to the advantage of the owners to refuse such a lume, as it might be worth their while to work the mine themselves; in that case the debt of 990,000 dellars, or about 185,000L, due from the ewsers to the suncistims, would have to be paid out of the profits of the ewerers to the association, would have to be paid out of the profits of the workings, and the company would have power, by the Mexican law, to place a superintendent to see that a certain portion of such profits was applied to liquidate such a debt; the materials, stores, and cash on hand at the sainse wave-valued at 60,600L, which they would be obliged to purchase, as it could not be worked without them, and subody could supply them so chought; that was the ecoupany's ascently for the value of their stores; the restainder of the English debt was 36,000L red scrip—the directors last paid off several of the company's debts, associating to shout 79,000L; the establishment will be reduced as much a possible in one of a refuel on the part of the sensors of the mine to enter into a new contract, as coon the part of the owners of the mine to enter into a new contract, as eco-mony must be the order of the day, and if a new contract should be en-tered into it would be to such an effect that no further call should be made e proprietors.

C. FRANKS requested to know if the agreement required the

turn to take the materials at a valuation !- The Courages replied that there was no obligation, but the owners could not obtain the normalization so choughly anywhere else.—The report was then unanimously Thenks were roted to the chairman and directors, and the meeting adjourned.

GREAT WHEAL CHARLOTTE MINING COMPANY.

The half-yearly general meeting of the shareholders in the shows com-pany was held at the Goorge and Valture Terren, on Monday, 15th inst.

G. B. Cane, Esq., in the chair.

The advertisement enevening the meeting having been read and conformed, the Canenaran mid that none of the proprietors could feel more disappointed with the result of the lost vit months' working then the direstors, and it was necessary to raise further required to after so the mine; Mr. Toylor had come up from Cornwall, and would give the storeholders each inflavousions as he throught would worned that receive; it remained, of each information, as he throught monitor worned that courses is transaction, or concern, with the proprietation to densite what stope situated he tablets; for his part, if there should used the mine, he would receive his above of what was left, or if they append to continue their concurrence he would be appelly willing to undescribe his observed the new crystal. to he related; he was a largedy interested sincerholder, halfing shares to the estimat of one-tensit ad the miss.

Mr. Names than read a report from Captains W. Francis and T. Ri-

Marchs.

Ann. 12.—Electry inspected this price to day, all procramposts, we are buy to

hand you our report thereon. The engine shaft has been sunk a low the eighty two fishion herel, but its sinking has lately been we think, properly so, until some further discovery is made at them level. At the eighty-two about fifteen fathoms have been twenty fathoms west, the lode generally is large, but unproduced ward, where the run of ore ground gone down in the lovel ower o met with before now; and it consequently fallows, that a fail appear of the mine, in that direction, has taken place. The level drives on the north part of the Inde for none fathoms in length or symmetric this level should be discontinued. In this weekers end has lately been a branch of good ores, producing about a top per appearance of the lovel sould be discontinued.

but we think their value will be fell 2000, at the expansion of six months.

A report was then read from Mr. R. Taylor corroborative of the above. Mr. Taylon, in reply to several proprietors, stated that the freet had much retarded the washing of ore for the last month, and which had caused so samil a quantity to be sampled, but there was new from 180 to 190 tone nearly ready for cale; the changes which all mines were subject to had seriously affected the raisings, and those changes were more apparent where there were only two or three levels, so in this ones, than when there were 100 levels, for when there were so many new discoveries being constantly made they compensated for the deficiency occasioned by the failure of other parts of the mine; everything appeared favourable in the 182 fathom level, and it would, doubtless, turn out three tone per fathom; they were shout twenty fathoms from the shaft in the 182, and shout iff-teen in the 172 fathom level. He then entered into come technical explanations about the different levels, exemplifying them by diagrams, and concluded by anying that Captains Francis and Richards had stated that the prospects of the 182 fathom level were such that the abandonent of the mine, before further trial, would be cowardly and foolish. The average expenses were about 700£ per month.

A long conversation then ensured has to the best means of raising the additional capital, and, after samy plans had been proposed, the following string of resolutions for that purpose was unandemously corried:—

Resolved, That it is expedient that further capital he raised for the purpose of the company, by the creation of an additional capital, and, after samy plans had been proposed, the following string of resolutions for that purpose was unandemously corried:—

That the holders of the present shares shall be cutified to the pre-caption of such shares to to be created, to proportion to the amount of the respective shares new held by them of show, shall be cutified to an additional only present the A report was then read from Mr. R. Taylor of

on the 15th day of April and on the rate may or your, mass of ion, so paid, of a share of 2d. 16s.

That every proprietor shall be extitted to subscribe for such additional shares in proportion of two five every five held by him or her in the capital of the conspany. That is case any instalments on the shares directed to be evented, as a forested, shall remain capaid fourteen days after the days named, they (the directors) shall be empowered, if they think if expedients to to do, to selectes such shares facilitied to the use of the company, and shoo, if they shall think fit, to nell such shares for the benefit of the company.

That if the whole of the shares directed to be created by the forgoing resolutions be not subscribed for by the parties entitled to the the same, theo, and in such case, edict the let day of March, it shall be lawful for the directors to shall there of the proprietors or one properties of giving preference to the former to entereibe for the same, or it they shall be installed to the company.

That of non-not the proprietors or one properties of the same for the heavest of the company of the company of the company of the company.

That of non-not the first payment on the 4000 charts directed to be relead as afterward shall have been made, the directors shall call in all the shares (14,0-5) is number) and shall have been made, the directors shall call in all the shares (14,0-5) is number; and shall is a coheage for the certification of the same limit new continuous of the temperature of the the marine. He can all the context of the same first the thanks of the merities is all the shares when the shall not be accorded on properties. He can directed the thinks of the the cannel and directors, the case of the company; and that no dividend shall be paid on any shares which shall not be accorded on properties.

Thanks were then ununimously voted to the chairman and directors, and the meeting broke up.—[Another meeting will be shortly held to confirm these resolutions.]

LIVERPOOL AND MANCHESTER RAILWAY.

LIVERPOOL AND MANCHESTER RAILWAY.

The bull yearly worting of the proprietors of this company was held in Liveycoil, on Wednesday, the folds instant, Mr. Chrantus Lawringer, chairman of the board of directors) presiding.—The fincinitariary read the infly-party report of the concern, which commenced by aliming to the exciting distresse and embarrasement, and to the influence which they had on he concern. The report included a statement of the accounts, from which t appeared that the recipits were, for the past half-year, in the conching descriment, 10,049. Int. 7d.; merchandise department, 13,074. Inc. 11d.; and department, 3006f. Sc. 6d.—Total, 137,030f. 17u. 10d. The gross exposition for the same period was 70,000 f. 5c. 7d. leaving a set result for cml department, 2006. 2s. 6d.—Total, 137,6301. 17a. 10d. The gross expenditure for the same period was 70,0504. 5s. 7d., leaving a net profit for the half-year radiug the 31st of December, 1841, of 67,6301. 12s. 3d. &bd to the profit the werpive from the half-year ending June, 1841, and the disposable fund is 74,1821. 9s. 7d. The number of chares entitled to a dividend is 12,000 bundred pound shares. The directors recommend a dividend of 51, per share, amounting to 50,4506.; also the payment of a third lootalment of the rearred interest on 5100 eriginal 1861. shares, 11, per share, 5100. - total, and on the 5100 first quester shares, 2s. per chare, 5100. - total, 66,6606., which being deducted from the available fond, as above stated, will leave a balance of 61222. 2s. 7d. to be carried to the heat half-year's sement.

DUKE OF CORNWALL'S HARBOUR AND RAILWAY COMPANY DUKE OF CORNWALL'S HARBOUR AND RAILWAY COMPANY. The ball-yearly general meeting of the properieure of the abuve company was bald on Thurnday, the 77th ined., as the London Tarren. The abuveliances of a line of the serving been read, and the universe of the last confirmed, complaints were made that the arbitrator should not, after more than twelve menths, have made his award, and ultimately a rescaling one menths, have made that the arbitrator should not the company readered it described that the medicare in departs should be specifily estainly not that the arbitrators, the failure and decans no part of the properious readering the winding up the affairs of the company mere occurred to the readering the winding up the affairs of the company more occurred to the readering the single of the company more occurred to the consider. It being, offer come one reconstitute, agreed that this meeting should be that described when the award was given, the properious control by the directors when the award was given, the properious separated.

SOUTHAMPTON DOCKS COMPANY!

A special greeral stretting of the shareholders of this company was beld at the offices, in Bishmanghan-street within, on Monday the 24th instead, for considering the property of applying to Paulimenous for power to raise an additional 100, 5000. Increasing the projecting the applying to Paulimenous for power to raise an additional 100, 5000. Increasing the decke, for converting the present share list of \$50,0001, index the name assessed of stock, as also the 100,0001, and in extinguish 2000 observe, on which the calls could not be relationed. The chule was taken by J. Livianes, Eng., who cubred are fully lots the nature of the nonearous the observed of the nonearous discovered with the same and adjusted to the prespictory when completed.—Mr. Hand midd 100,0001, would not to the prespictory when completed.—Mr. Hand midd 100,0001, would not be collected to the natural bell to the nature of \$50.000, and the natural to the natural states and consistent the natural states, and consisted in pressing for an adjustment of a forthight, in manufact the natural collection.—Mr. \$50.000, and the natural states the natural collection, one of which, it was expected, would be represent by Midmenton.—After a long discussion harmon the proprietation and the closertons, the remaining on the shipets of the necessary, that is the present entire of the lates were paid you for the result will, and that out of the fittee arrived moneral, and closer were paid you for the latest was like the proposite extends of the trivial allowers could not be additional not be fitted to be a proposed attent of the stock of the constitute of the same were paid your for the latest was lated to add not be proposed to the of things the foreign of the account of the stock of the present account of the account of the proposition of the proposition of the account of the proposition of the account of the stock of the proposition of on a grant for public works but your, when application was made to the hancelibr of the Enthroper, to had so doubt \$0,000, would have been rected.—A conversation took gives on vertexa topics, other which a vote of table on moved to the elastrone and describes, by Mr. Fonagen, not consider by Mr. Doubers, which having two carried meaninessity, the exiter allowed.

A special potential meeting of the proprietors of this company was held at the office, 355 GM Broad-street, on Wedgenian, the 20th inst. J. B. SMITM, Eag., presided: From the report it appeared, that the accounts received from New South Waics and Von Dieman's Land since July last were highly satisfactory. The monum of undivided profits to June last was 46,300d. 4s. 6d., to which sid the profit of the last half-year, less the expenses of the branches and in London, amounting to 33,364d. 16s. 7d., which left a balance, after further decluctions, of 54,785d. 5s. 1d. of undivided profit. The result of the foregoing statement coabled the directors to declure a dividend of 25s. per share on the original charce, and in the second series 10s. per share, which was after the rate of 10 per cont. per annum; the reserve fund balance to the end of Decoaber was 15,198d. 6s. 6d.—Mr. Boundmattat moved the adoption of the report, which was carried unanisonency.—A discussion took piace between the directors and Mr. G. K. Robinson, Mr. Minder, Mr. Nicholis, and others, during which the Charlman said it was their intention to apply for an Act of Incorporation.—After votes of thanks to the London and colonial directors, two new directors were elected by ballot, after which the meeting adjourned.

UNION BANK OF AUSTRALIA.

QUARTERLY PUBLIC SALE OF BRITISH TIN

QUARTERLY PUBLIC SALE OF BRITISH TIN.

The amounced quarterly sale of British tin, by order of the Governor and Company of Copper Minora in England, took place on Thursday, the 37th instant, at their house, in Old Broad-street, Messra. Short and Mahony officiating on the occasion. There were no less than 1998 bols a soch lot, with the exceptions of ingot and bar-tin, being confined to five blocks—in the tree exceptions the lots being each one ton. The whole quantity which was thus submitted was 1000 tons, as follow:—Best grain, 45 tons; tin-plate grain, 108 tons; best grain, 45 tons; tin-plate grain, 108 tons; refined, 134 tons; best grain, 45 tons; tin-plate grain, 108 tons; refined, 134 tons; common, 393 tons; ingot, 190 tons; and bar, 100 tons. Of this quantity not more than one-fifth was sold, the principal part of which was common block, at prices varying from 65s, to 66s, 6d, per cwt.; the terms of payment being—deposit 10d, on each lot, with prompt 27th April—no interest or discount—and deposits payable this day. In consequence of an apathy on the part of buyers, the whole of the lots were not put up, and the sale adjourned until that day fortnight, the 10th February, to take place at trelve o'clock. The room was well attended, and we understand, since the sale, several private bargeion have been effected, reducing the quantity to be submitted at the adjourned day of sale, the company continuing their sales, for the quarter, to 1000 tons, which are, according to their regulations, first submitted at public auction, and the quantity, if any, resaining from the sale subsequently sold by private contract. Some remarks on this sale will be found in another calumn.

IMPROVEMENTS IN GENERATING STRAM.

IMPROVEMENTS IN GENERATING STRAM.

(Specification of the parent granted to Charles Fluid, Livergoot, chemies, see his invention of improvements in applying heat for generating steams, for general manufacturing and other useful purposes, where heat is required; and also see an improved receive of supplying steam-builders with hot water, the said improvements having for their object the consonary of eteem.)

This invention is described as consisting, firstly, in various improvements made upon a former invention; and, secondly, in an improved method of supplying steam-builders with hot water. The description of the apparatus and means by which the invention is carried into effect, is described at great length in the appointment of the apparatus and means by which the invention is carried into effect, is described at great length in the appointment of the invention of and additions for, the former patent, by which the heat of a code oven may be more beneficially applied to the generating of steam. There are above forty figures in the drawing, exhibiting different plans of building coke avens, is some of which do we perceive any particular feature of nevelty. The patentes proposes to heat the air as it pauses through certain flues, beneath and a caused the even, and places the coal such heated sic into the main flue, for the purpose of consuming smoke; he also divides the even, and applies distinct furnaces, and places the coal to be account of improvement is passing the eduction ateam from an engine through a multitude of pipes, by which it becomes condensed, through the refrigerating properties of the coal air which servounds the pipes. The coadensed vapouer, almost a beiling heat, passes from the pipes into the totals, and is themse conducted into the builer. This appears to be exactly the same plan as that proposed by Dr. Church, many years ago, in connection with his classes engine for locometion.

The specification coachades with a long catalogue of claims, as follows:

—"Let. I claim the mode of increasing th

3d. I claim the mode of increasing the feet and burning the smale of owke overs, as shown and described. (th. I claim the continuition of common firms and cohe overs. Int. I claim the mode of heaving steam-boilers and evaporating vessels, as described, whether the same are furnished with side flues or not, and whether the daught be from front to book, or in any other convenient direction. This, I claim the general application of the aven to steam-boilers and evaporating vessels, as described, whether the same are furnished with happers or feeding means, or air flues, or both. It is, with respect to the manufacture of glass, portery, and carthersease, I claim the general application of the weste heat of cube overs to the patientary pre-poses aforesaid. The I claim the mode of heating glass farmeose by fives, estants beneath the glass-furnesse, incleaned to being placed in the furnesse itself, as hitherto practiced, whether such flues be of the ordinary constituents beneath the glass-furnesse, incleaned of being placed in the furnesse itself, as hitherto practiced, whether such flues be of the ordinary constituents on or only of the constructions abuve described. 19th, I claim the combination of cohe overse, with fisciling means, when the heat of combination of cohe overse, with fisciling means, when the heat of such combination of cohe overse, with fisciling means, when the heat of such combination of siack or must, as shown and described. 19th, I claim the combination of cohes or one of the combination had been as one of the combination by interestion of siack or must, as shown and described, and thus obtaining but water for supplying the boilers of lacometive-engines on railroade or ways. And 19th, I claim the combination of a close floor, as portially close floor, and erch and freeding means or common from or both, as herein described, whether the name be supplyed for heating payments, according to the association above specified and captained.

Conceing a such condition of the North Midland Mailway Company,

if the experiment new making to use coal trained of color, in their sinese-engine forecess, by the application of Half's emois-consumming apparetus, should second. Of this there is the mest confident expectation, from the experiments that have already been made at Lordin within the last less ten days. — The Lordin Intelligences states, that, with a view to preserve the va-luable information communicated at the recent meeting of Lorde, and to extend its searches on their parts of the hingeing where it is equally wented, the communicated them appealed here required five. William West, the classical, he draw to a their communicaty of these seaf of any either known modes of provention or communication them, grains a communication of the search of the search. wanted, the commercian them appointed new requestions and of any salies known an other of a short commercy of these and only any salies known a modes of preventing or commending coming, girling a constant accounted of the inventions, date of introduction, witure the "I specification" to to be found, the sender of operation, description of instinguished, agente appointed, places where each very les once in operation, and of private inplic, of appearance and of creation, with directions where once unique ladies, and of creations will have a passiphilate of senderate size, from which partition proposition to estate inside, and the constitution proposition to estate the private and of creations of the thicky leading and proposes. Mr. Weak less long poid attention to the subject, and will, not divide, where and arrange his measurishs with dispenses, inspectabley, and his constitution of the triangular to the constitution of the proposition of the proposi

MEETINGS OF SCIENTIFIC BODIES.

	IN THE ENSUING WEEK.		
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SACISTY.	PLACE OF MENTING. BAY.		05/B.
Spitish Architects	d, Groevener-street Monday	8	F.M.
All actions!	Boil-court, Ficet-street Monday	8	F. 36.
Linuman		8	P. M.
Mostlewitzenl	Il, Regent-circet Tuesday	2	P. M.
Civil Engineers	25, Great George street Tuesday	8	P.M.
Chemical	47, Leicester square Tuesday .	8	F. M.
Society of Arts	Adelphi Wednesday	74	F.35.
Canalaurken)	Somered House,, Wednesday	. St	P. N.
Berns	Somerset House Thursday	- 89	P. H.
Antionaries	Sumerset House Thorsday	8	F. M.
Boxal fostitution	Albemark-street Friday	- Få	P. H.
Botasical	ps, Heddord street, Cov. g. Priday	. 8	D . M.
Moral Asiatio	14. Graffen-street Safarday	2	F. H.
Wastenlander Medic	al Exster Hall Saturday		F. H.
	Cylenia street Sairaidalda Safurday		F. W.

CAMPIA CONTRACTOR
MESTINGS.
Stockton and Hartlepool Railway., Office, Stockton, Jan. 29 17.
London Cometery Company 22, Monegate street.,,,,,,,,,,, &1 1.
Grand Junction Railway Liverpool Feb. 2 1.
Ragle Assurance Company 3, Crescent, Blackfriare 2 2.
London and County Bank
Millerelen Mining Company 6, Austituriars 2 2 1.
Trefest Mining Company & St. Mildred's court 7 1.
East Tretoil Mining Company, ditto dilto 7 1
West London & Westestneter Com. British Hotel, Corkspar at 9 1.
London and Signingham Saliway Office, Birmingham
Cornwall Great United Mines York Hotel, Manchester 11 12.
Condengs Mining Assertation George and Vulture Tavers 12 1.
Condengs Mining Assembling Control and Voltage Parcers 14
Great Wh. Cherlotte Mining Co George and Valture Tavers 14
Amstralian Agricultural Co 12, Hing's Arma-yard 18 2-,
CALLS.
Bristel and Exeter Railway iti Jan. St As former calls.
Month Consultated Mining Co. 7s. nd. Feb. 71 Williams and Co.
Patheren Tin and Copper Co 10s. per sh. 21 Bosanquet and Co.
De Bunetanville Mining Co tou March 1 24, Birchin-lane .
Irish Waste Land Im. Society If April 15 As former calls.
Cambrian Iron & Spatter Co 241 17., As former calls.
BIVIDENDS.
Mining Company of Ireland 15 per cont Office, Dublin , Ich. 1.
Wicklow Course Mines 14 per cent. Office, Duklin 14.

NOTICES TO CORRESPONDENTS.

Mr. S. B. Segora's fourth paper on Iron Metallurgy will appear in our nex

N. W. B. "(Tyenactor) —The series of papers now in courses of publication, outlined. Hew System of Georgey," are entirely original with se, and not to be had no system form, neither in it infemded that they should be. The work almost blooded to by Mr. Montague is one he has been many years collecting melecial for the main features of which will be given to the scientistic world through our concesses; however, in our concesses in your sent this, we are not able as present to commone only further arrangements as having been entered into with the writer.

ments as having been entered into with the writer.

We see an probability of present of bring alike to devote anything like the space regulard for Mr. C. R. for his constemplated series of papers, on "Reilways, Theorethously and Practically Considered," consequently, advishatanting that we are with him as to the interest and importance to be attached to a discussed that each attache on their approaches (if a hip treated), we feel composite to decline his effection a future occasion, parloags, it may prove exceptable.

R. G. " [R. Ascill] and " F. M. " [literating ham — see source to " R. W. R."

Caase a Face. — We have elsewhere briefly noticed the proceedings in this case before the Court of Common Pleas; when the deviation is prosecuted, we shall coater at length into the arguments of contest, with abstract of principal prints is the exidence, together with some general observations on the sature of the question is dispute.

The delay in an incremedging the receipt of "R. R.'s" communication areas for its being michals, so for from our having observed the article alreaded to, we we not even awars of the existence of the publication in which he says if has be

W. B. B. - Apply to Mesors. R. B. Watson and Co., sharebrokers, Leeds

steed - J. Phillips - Bob Jackson - " A Tinner "-" E. T."

consequence of the nonnergon applications made in the Editor on subject of Administrative development which here appeared in the volumes of the Minner Jonania, with a sense to particular and other hands of the discount of the construction of the construction of the construction of the construction of the construction, and construction of the construction of constructed with mineral generaty, where plane and particular of the disciplinal may be constituted and obtained, Experience and in the second construction for disposal may be constituted and obtained, Experience could be the second construction of contact of the construction of the constitution of the co

THE MINING JOURNAL. Mailway and Commercial Cajette.

LONDON, JANUARY 29, 1842.

The second quarterly sale of 1000 tons of British tin by the Miner Company took place on Thursday last, when about one-half only was submitted, the larger portion of which found buyers, at reduced This result is bailed by the private amolters as a victory schieved by them, or, rather, a failure on the part of the company which has, it is said, been brought about by sales having beet lately pressed by the smelts merchants at lower prices, and lately pressed So we are advised, with a determination, on their part to depress
the searchet, so as to influence the biddings at the quarterly sale,
which a depreciation was well calculated to do. We have received
several communications from parties whose peculiar interests are
manifested by the bias observable in their letters, to which we do m it necessary to give insertion, having confined ourselves to past deem it necessary to give insertion, having confined ourselves to that of Mr. A NICHINI, but as the question naturally arises, whether the miner is benefitted by the present system / (for, most assuredly the consumer is) it may be well to adopt the arguments adduced by some of our correspondents, both in favour of and in opposition to the measure, and shall, therefore, first proceed to consider the views entertained by those who, from private interests or on public grounds, oppose the system pursued by the Miners' Company. We are given, then, to understand that the manufacturer looks upon the company as endeavouring to catabilish a minispoly, by creaking the private ameliers (no easy task, by the bye), whereby there may command the market, while, on the other band, as things private ameliers (ms easy task, by the bys), whereby smand the market, while, on the other hand, as things they may eve are at present constituted, he now has the opportunity of purchasis email tota at any time during the current quarter from the company, until the 1000 tona are taken up. We may here quote the words of an intelligent correspondent connected with the trade. He says

Who emiglical point may strain a spainel the old smellers and to pre-of more durance of trade, shores commentated, and to hadle the en-try are the large dealers, for may there on the excellent in except to conceiled on he the room of the source tour were to have protected, and castly there he had not not the protected, and castly there has been to not require which can be not not the sound desired by the house the tensor was sensit desired by the sound desired by the sound tour and that soldcook sourcessing ment to the Manusco-Company in house out of limit been really in the source of the protection of the source of the

Mr. Anecessus, in his latter, says that the effect of the sale has been that of the price of white tin bring reduced 14 per ton, and these the miner, he whom a broofit was contemplated to arise from the measure, is in a worse position than under the entire repine It will be for the unious to consider the correctness of the several views taken, pre and con., and to determine for himself the cover realized concess to mileget.

Marring brindly adverted to the arguments addressed on behalf of

the emplie surveheat and the consumer, he us take the other side of the question—one is which we see, we confeen, well disposed to implies. We see told that, for several days before the sale, the private austines were proming parvels on bayers at 750 per ton, less 5 per year discrement, which would, after declaring shipping elegates—nay 12s, per ton—leave titel 12s, not. Now, if we assume that the private austiness would have sold at lower private, if asks quality have been effected, any at 700 per ton, fird on beard, with 5 per year. with 3 per even, discreven, which, with shipping charges, bring de-chapted, the net price obtained would be 621 fm per too. On the other based, the average poice of the tim sold by the Miners' Company appears to be 65£. 15s. prompt 27th April, no interest or discount being allowed. If, then, we add the 3 per cent., with export duty, shipping, and lighterage, as before, of 2£. 14s., we have a price of 68£. 9s., from which, of course, again has to be deducted interest to 27th April, as also, that on stock accumulating in the quarter, being equal to about 1½ per cent., according to our calculation—the deduction of 2£. 14s. from the price in the first than the price in the first part of the property of the cash for programs. case mentioned, being here naturally added to the cash (or prompt)

Having submitted the comparative prices obtained, the qu naturally arises, by which system does the miner benefit? is it by the sale of his black tin to the private smelter, or through the Miners Leaving the prices given as data from whence he may arrive at correct conclusions, we may here introduce one or two brief remarks on the salvantages which may be calculated on from sup-port being given to the Miners' Company. In the first place, it appears to us that the price obtained for white tin was but a poor criterion in olden times, by which the tinner might reckon on the price brought at ticketing for his black tin, whereas he now cer-tainly secures the fair market price of the article, allowance being made for cost of smelting establishment, commission, &c. Secondly, the price obtained at quarterly sales must alone be considered as the average price of the quarter, and not as applying to that particular period at which the sales take place, and, as private stocks are consumed, prices may be naturally expected to advance Again, the fact must not be lost sight of, that the miner, through the Miners' Company, can afford to sell his manufactured tin at a less price than that realised by private parties in the trade, inasmuch, that in the one case, the sale is direct from the miner to the dealer or consumer, without the profits which must otherwise go to the smelter and merchant, and, further, without being subjected to the ill effects arising from a close monopoly on the part of the buyers; in the other, he is placed at the mercy of the smelters, who have the power of raising or depressing the price of tin staff; and who, in their joint capacity as merchants, can, in a great measure, rule the market for tin as to prices, with a view to their own advantage, irrespective of the interests of the miner. In the one case he is content on the sale of the manufactured article to find that a fair price is given for his ore; in the other he has no control, but must, and has been, subjected to the dictum of The Miners' Company have had much to contend with, and, in all probability, have more difficulties (although insurmountable) to overcome, ere they can be placed in the tion contemplated in the onset, which shall be productive of tual advantage to the miner and to the capitalist. It is only, then, by aid being rendered on the part of the miner, that this is to be ual advantage to the miner and to the capitalist. achieved, and heartily as we wish the advancement of his interests, so do we recommend his putting his shoulder to the wheel, carrying out successfully a measure so important as relates to our home mines, but which can alone be effected by unity of action, and practically applying the Cornish motto of "one and all."

TIN TRADE .- Saturday, 12 o'clock .- The price is this day reduced by the trade 4s, per cwt.

So, then, at last, Mr. Alderman Thomas Wood, attorney-at law, late trustee, chairman, and solicitor of the Talacre Coal and Iron Company, besides filling other important trusts and offices, has become en-tangled in the meshes of the law—his able services likely to be duly iated by the judges of the land—and their opinion on the legality of his acts-while of the corruptness of the motives which actuated him in the frauds practised on the community a large, but more especially on the inhabitants of Dublin, by his hycal cant and false representations, no doubt can exist in the mind of any honourable man. It has been, with us, a matter of surprise, that the course now takes, of applying to the court to strike the worthy (!) Alderman off the rolls, should have been so long delayed, but if we imagine the proprietors to have been guilled into the belief that he (Mr. Ald. T. Woon) could, in a great degree, rehas belief that he (Mr. Ald. 2. wooh) could, in a great degree, re-lease them from their difficulties by perpetrating a furthe or and upon others, they, perhaps, acted wisely in the policy which prompted them to delay, for, after all, in cases of this nature, public prin-ciple too oft is sacrificed, and must give way to private interests. However, it is satisfactory to find, that fair and even-handed justice will be meted out, and the magistracy of the City of London, in all probability, relieved from an incubus calculated to reflect so much discredit upon a body which should number among them only men of high honour and principle. It will be seen, by the report of the proceedings in court on Thursday last, that an application was made, having for its object the striking off the rolls Mr. Alderman Thomas Wood, for certain acts of missenders and size above the further shirest of obtaining from him. conduct, and also having the further object of obtaining from him the books and other documents of the company, of which he has hitherto retained possession, on the pretence that 900f, or there-abouts, is due to him for law charges. It is unnecessary to say that the application was se perie, and, therefore, that the worthy Alderman was not represented in court, so as to meet the allegations set up by the counsel for the plaintiffs-Mossre. Charre Low, Hannesver, and Taylon, who, as acting directors of the Talacre Coal and Iron Company, and amongst the heaviest sufferers, deserve the praise and support of every shareholder for the manly course they have now taken, having endeavoured, for many months past, but without avail, to effect such amicable arrangements as might have tended to prevent the necessity of the present application. We believe the merits will come on for hearing on the second day of next term, when those details must be given which will shame the worthy Alderman, if he possess any feelings of honost pride, in supporting the character of a man of integrity, either in his office as alderman-his professional character as a lawyer—or in his private capacity as a man.

In bringing the motion before the court, on which to obtain

rule, it became necessary for counsel to give a brief outline of the grounds on which the application was made, in doing which the main facts (unsupported on that occasion by evidence) were ne-resuarily put forward, and which, having been so frequently set out in our rolumns, require no reperial notice. The view taken out in our columns, require no especial notice. The view taken by Mr. Justice Williams is just such as might be expected, for, said he, "supposing the facts to be true (but upon which he in-timated no opinion), they certainly gave rise to a necessity for a much more extended fiquiry, in order to meet the public justice of the rountry." This is speaking in plain terms, and, as the facts can be substantiated by evidence, we concur in the view taken by ed Judge, that the present application does not meet the justice of the case, and that nothing short of an indictinest for conspiracy, against the whole of the concortors of this fraudulent arhams, should satisfy the community at large. It is, indeed, a case worthy of public impairy being instituted—at least, by the Aldermanic body, or the Court of Common Council—and most undoubtedly on the part of the deluded shareholders—with the view of exposing the frend in its true colours, and bringing to mishment these who were the perturbators in the spoil. We have oft before observed as the injury which conduct, such

as that of Mr. Alderson Thomas Words is calculated to do to the mining interest, while it brings ruin, as is the case in the exent instance, on men of hosourable practities, who have un-remadely risked their rapital on the micropevantations of those whose position in moisty might be considered as their less subground. One or two exemples, and we shall here so more of a malegrand. reputition of each diagraculal practices—it, is, therefore, pleasure we reflect from Mr. Rounger, a statement that " by live he (the Abhreman) should be dealt with in another form." by-andCOMPRESSED AIR APPARATUS.

R SINGING THE SHAFTS OF MINES, AND FOR CARRYING ON OTHER WORKS UNDER WATER, AND IN SANDS COVERED BY THE SEA.

A paper on this subject was lately presented to the French Academy of ciences, by M. Triger, C.E., which will be found well worthy attention. From Doué, in the department of the Maine and Loire, as far as Niort, in the department of the Loire Inferieure, there extends a coal district, well known to miners and geologists. In 1811, M. Cordier made it the subject of a memoir, and at a later period, Mesers. Elie de Beaumont and Dufrenoy closely examined it, and traced it on the geological map of France. The Loire, in forming its course through this district, has taken a direction which cuts this bed of coal at a sharp angle, and has covered it with considerable alluvial descripts. with considerable alluvial deposits, between the towns of Rochefort and Ingrandes. Under this superstratum, which is not less than from eighteen to twenty metres in thickness, is to be found the coal bed. It was to to twenty metres in thickness, is to be found the coal bed. It was to render the extraction of the coal possible that the apparatus has been employed which we are about to describe. Numerous soundings have proved that these siluvial deposits are composed of strata of a-giliaceous schist, between beds of quicksand and gravel. Amongst the latter may be recognised the debris of numerous rocks which have been brought down by the insundations of the Loire; they are composed of volcanic rocks, granites, and silex. The position of these deposits, of which the course sands and pebbles compose the lower beds, would indicate that the cause to which they owe their origin was formerly much more active in its principle than at present—in fact, it is easy to trace the progress of the existing denosits at present—in fact, it is easy to trace the progress of the existing dep from fine sand to coarse, then to pebbles, and, finally, to erratic ble which, from constant friction, have taken a form nearly spherical. The soundings have shown a fact equally remarkable—via., that, at the period of the formation of the valley of the Loire, the rocks, whatever might have been their hardness or resisting qualities, were worn down to the same level, and with such uniformity, that the strata on which these deposits rest present a surface nearly as flat as the alluvial deposits themselves. This tract of country is, however, composed of alternate strata of rocks, so little homogeneous, and of such different decrease of hardness that it is This tract or country is, nowever, composed or anternate strain or recar, so little bomogeneous, and of such different degrees of hardness, that it is difficult to explain such a phenomenon. How it is that these rapid currents, to which the hollowing out of valleys is generally attributed, and which even the felspar rocks cannot resist, have not ploughed up, at the which even the felspar rocks cannot resist, have not ploughed up, at the depth of several metres, the veins of coal, and the soft schists which accompany them, we are at a loss to imagine. It is not the less a fact, however, that they have not done so; this has been ascertained from the numerous soundings that have been made.

"The close varianties (continues M. Trien) which I have the

The close examination (continues M. Triger) which I have given to this district, having shown me that from eighteen to twenty metres in thickness of quicksand must be penetrated to get at the cosl, to conquer this difficulty, I have been obliged to resort to other means than those usually employed in working mines. The obstacle in question had been considered by all the miners of the district as so insurmountable, that every portion of the coal basin, which extends under the alluvial deposits of the intable, that every portion of the coal basis, which extends under the alluvial deposits of the Loire, although well known for centuries, has remained untouched. To endeavour, by means of ordinary workings, to penetrate these quicksands, which are the more moveable from being in direct communication with the waters of the Loire, was, in fact, nothing less than to endeavour to sink a shaft in that river, or to drain the river itself. There being therefore, no possibility of draining off the water, I conceived the idea of working through it, and the most complete success has attended my efforts, where to the great-years of the great represents the great results. ig to the employment of the following apparatus :-

"DESCRIPTION OF THE APPARATUS.—I procured a tube of sheet-on, twelve millimetres in thickness, and 1033 metres in interior diameter. This tube was twenty metres in length, and, having been constructed in Paris, was forwarded to me in lengths of from five to six metres. These pieces, after being united, were successively sunk in the sand, in the sanne manner as the boring for an Artesian well. The sands were then extracted, so that we may consider the sinking of this tube, which rested on a solid bed at the deeth of insteem settles. manner as the boring for an Artesian well. The sands were then extracted, so that we may consider the sinking of this tube, which rested on a solid bed at the depth of nineteen metres, as a species of sounding entirely new, on account of its great diameter. Nothing remarkable manifested itself during the sinking of the tube, excepting the rapidity with which the resistance augmented as soon as it quitted the common, to penetrate the coarser, sand. The tube, which, to the depth of from twelve to fifteen metres, had penetrated with ease into the common sand, experienced, at a depth of from seventeen to nineteen metres in the coarse sand, such a resistance, that 200 strokes of the tool, 2000 kilogrammes in weight, were scarcely sufficient to sink it a few continuetees, though a little time previous sistance, that 200 strokes of the tool, 2000 kilogrammes in weight, were scarcely sufficient to sink it a few centimetres, though a little time previous a similar effect sunk it at least one metre, so that the two last metres required, at least, twice as much labour and time as the previous partner the operation, whence I conclude that it would have been impossible to arrive at the same results by the successive disengagement and clearing away of the sand, and by ordinary pressure, as is generally practised in England, where the soil is of a very different nature, and far from presenting the like difficulties. I now proceed to describe the compressed air apparatus. This apparatus is composed of a steam engine, two pumps to compress the air, and of an air chamber (sas à sir). This air chamber is composed—1st, of an sir-tight division in its lower part, intended to fit against the sides of the large iron tube or shaft, sufficiently close to prevent all communication between the atmospheric air and the interior of the against the mace or the large iron tune or shart, sufficiently close to prevent all communication between the atmospheric air and the intervier of the shaft; 2d. of two pipes, one of which is intended for the introduction of compressed air into the shaft, and the other to facilitate the escape of the water, when, in consequence of the compression of the air, it is forced with more rapidity than the openings at the bottom of the shaft (produced by the imperfact contact of the tube with the gravel) will permit it to es-cape. 3d. of two valves large enough for the introduction of the workness. 3d, of two valves large enough for the introduction of the workmen, se extraction of the loose soil; 4th, of two stop-cocks-also, of a ter and a safety-valve, to prevent accidents.

"THE WORKING OF THE APPARATUS. - Let us, in the first place, posses the steam-engine to be in action. The pumps will force into the express the steam-engine to be in actions. The pumps will force into the shaft, below the air chamber, such quantities of air as may be necessary to drive out the water, there being no communication between that part of the shaft and the atmospheric air. If the shaft he filled with water, the latter, yielding to the pressure of the air, will escape by the ejection pipe, and, in a short time, all the water contained in the shaft will be replaced and, in a short time, all the water contained in the shaft will be replaced by compressed air, and, if the working of the engine is continued, the shaft will be kept constantly dry. The introduction of the workness into the shaft, without allowing the compressed air to escape, is effected by means of the sir chamber. Let us suppose, for instance, the lower valve closed, and the sir compressed in the shaft at a personne of two or three atmos-pheres; the upper valve being open, the workmen descend into the air chamber, then close the upper valve above their heads, and open, at the chamber, then close the upper valve above their heads, and open, at the same time, the lower stop-cock, to establish a communication with the compressed six of the shaft. At the same instant the upper valve will become fixed, by the pressure, to its bearings, and as soon as the equilibrium is established between the six in the shaft and that in the six chamber, the lower valve will be opened by its uwn weight, and the workness can them eater the shaft. In order to return, it will only be necessary to revuew the order of proceeding—that is to say, to close the lower valve, and open the stop-cock of the apper division, to place the intermediate part in dicommunication with the afmospheric air. As the tenminishes under the upper valve, it will open of itself, and the worksome one do, art and early away the loose earth or other substances which they have excavated. Such is the apparatus that I have invented to prescrate the quickwards which compose the albertal deposits of the Loice.

[Ye be continued.]

ERRATU BLOCKS.—At the French Atmhesis of Sciences, on the 19th instead, M. Eller de Bessmoot rend a report on the geological observations made by M. Durocher during his late travels in the north of Swaden, Norway, Finland, Russia, and Denouach, in which he noticed principally the planessons commented with errotic blocks. He observed that the strenks found on the surfaces of remded rocks in Pinland, especially the grantic rocks, were emeritance abased microscopic, aspectance as large as the rate made by cort-wheels; and in Norwegian Lagdaud they were observed to be all accompanied by hosps of dilavial mades, extending to insceed dubances; in general the streaks on the racks were parallel to each other, but in some cases they were at right angles. The creatic blacks were generally of gravitic or gustes, but between St. Petersburgh and the Namera blacks of an iron than frantiers different kinds of rocks were found, other. but his wor all the known effect of which were in Finland; these blooks were separated twenty or twenty-free first in thickness, and their angles were by an mount in asked or were, or that the idea of fraction keeting sentented during their temporary was removed. The most restricts having sentented during their temporary was removed. The most restricts having of the district in Russia. Its which these blocks are triped to the Volge.

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SALE OF BRITISH TIN BY THE MINERS' COMPANY.

SALE OF BRITISH TIN BY THE MINERS' COMPANY.
TO THE EDITION OF THE MINING JOURNAL.

SIR,—On looking over the correspondence which I had with you in
October last, on the subject of the Company of Copper Miners' in England, and comparing it with the result of the sale which the governor and
directors have attempted to-day, you will be almost compelled to acknowlower the wiedom of my predictions. It is true, that they have succeeded
in againg to the trade a proportion of the 1000 tons advertised, at a reduction of 9t, per ton from last fortnight's prices; but such a kind of succuss, to use the words of a celebrated warrior of old times, is worse than
a defeat.

P. Anichani, Sen.
37. Funcharch, street, Jan. 27.

37, Fenchurch-street, Jan. 27.

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[Some remarks on this communication will be found in another column.

MR. ROGERS'S PAPERS ON IRON METALLURGY.

MR. ROGERS'S PAPERS ON IRON METALLURGY.
TO THE EDITOR OF THE MINISO JOURNAL.

SIR,—The valuable papers of Mr. S. B. Rogers, entitled "Data for
the Use of Blast-Furnace Managers," must be appreciated by all interested
in the make of iron, as well as those devoted to chemical science. What
constitutes the excellence of this gentleman's exertions is the minuteness
of his details and the clearness with which they are laid down. What I
wish to convey to Mr. Rogers is, that when he has completed what he has
so ably taken in hand, he will give his mode of analysis for iron, limestone, &c., for, a las I for those interested in science, the works we possess
are too general, and what is wanted (and Mr. Rogers can supply) is specific data for working out such analyses.

R. W. B. cific data for working out such analyses.

Tremedoc, Jan. 24.

Cific data for working out such analyses.

Tremadoc, Jan. 24.

ON THE USE AND ABUSE OF HOT AIR IN FURNACES.

TO THE EDITOR OF THE MINING JOURNAL.

SIR.—I perceive a letter from Mr. C. Hood in your last Journal, in reply to a former one of mine, and, as an answer to one part of the same. I request your insertion of the report of a communication from me at the last meeting at the Victoria Gallery, Manchester.—I allude to Mr. Hood's advocacy of the hot air principle.

Mr. Hood appears to adopt the random sayings of those who quote me incorrectly; but my letter in the last Journal applies to some which Mr. Hood has adopted—one of which has reference to the supposed assertion by me, that the "same quantity of air is required to consume the gaseous products of coal at all periods of its combustion." I am sorry to find Mr. Hood either attending to, or 'quoting anything coming from, Mr. Armstrong, I conceived he would have had penetration enough to see the acongruities which that writer utters. With respect to the quantum of icliance to be placed on anything which he thinks, or ascerts he saw, I rwould refer him to the new light theory of diffusion of Mr. Robert Armstrong, which I sent to the Mechanics' Magazine last week, with some remarks on the same, and where he will find that the report and opinion given of the erroneous principle on which my farnace is based was pure imagination, or "illusion," as he himself states, and the writing of a mere bit of spleen, in consequence of a note appended to page 4 of the Prefoce of my Trustise, charging him with speaking contemptuously of chemistry, &c.,—Purposing to continue my observations on Mr. Hood's paper, and with remarks on his last, as soon as possible,

I remain, Sir, your's, &c.,

Liverpool, Jan. 24.

[The paper referred to by Mr. Williams will be found in another column.]

[The paper referred to by Mr. Williams will be found in another column.]

The paper referred to by Mr. Williams will be found in another column.]

REMARKS ON MR. C. W. WILLIAMS'S TREATISE ON THE COMBUSTION OF COAL.

TO THE EDITOR OF THE MINING JOURNAL.

Sir,—In a former letter I stated that I would point out the errors which I might discover on a; armsa' of Mr. Williams's Treatise on Coal; and I now proceed to do so, in a manner which I hope will not be displeasing to him, for, as he states, that "the fact of being found to be in error is always accompanied with the conviction of being wiser," and as this necessarily involves a sense of obligation, I am not without hopes that I shall, in the end, be able to establish a claim sufficiently large to secure his gratitude for the period of his natural life. The review by Dr. Kane of my essay On the Chemical Properties of Coal, published by Mr. Williams in his book, and slee in your Journal of the 25th ultimo, being highly approved by Mr. Williams, I purpose following that gentleman's style as closely as possible in the following review; and the only difference will be, that, in consequence of Dr. Kane not having read a single line of my.essay when he wrote his review, he therefore erronscusly attributed to me, in every instance, opinions the very reverse of what I had stated; I, on the contrary, having read Mr. Williams's treatise, will give his own words in proof of the accuracy of what I state. I hope this slight difference will not deprive my remarks of any of their value, and those who take an interest in the subject, will, by referring to your Journal of the 25th ult., be able to ascertain whether I have succeeded in initiating that locid style which gave so much satisfaction in the former instance—Creta an carlosse not and and any of the lates and the expectation of the accuracy of the properties of the course of the properties of the course of the properties of the propert

your Journal of the 25th uit, be able to ascertain whether I have succeeded in imitating that lucid style which gave so much satisfaction in the former instance—Crete an carbone notandum.

OBBRYATION ON MR. WILLIAMS'S TRUATION.

Ist. The relative proportion which the exygen and the nitrogen of the almosphere bear to each other is not as one to five, neither is the proportion between one and five the same as between twenty and eighty (Mr. Williams's book otates the reverse). Several arithmeticians have fully proved that the proportions between one and five, and between twenty and eighty, are not the same, and I have verified their results repeatedly.—[Vide Mr. Williams's Treatise, page 45.]

2d. Mr. Williams is quite in error respecting the combining proportions of sir and gas. If A and B represent the sir and the gas, the combining proportions will not be for any gas, A' and B; because, the fourth power of A la equal to 256, and this number of atoms never combines with one otom of any description of gas, and the symbol here used never represents any other number.—["We must take into account the relative quantities to be mixed. The diffusion essential to the combustion is, then, not as between A and B, but between A' and B; "ride page 120.]

3d. When carbonic axide and carburetted hydrogen are given off by the fast, but are not consumed in the furnace, in consequence of a deficiency of axygen, the carbonic axide inflames at the top of the chimney; but the carburetted hydrogen is not cooled down in the flora below the generature of ascension (as Mr. Williams supposes), because, if that were the case, the carbonic axide horizon nearly double the specific gravity is described more than half that of atmospheric air, and, therefore, its ascension through the chimney must always be certain.—["Another important peculiarity of this gas (carbonic axide) is by reason of its already possession through the chimney must always be certain.—["Another important peculiarity of this gas (carbonic axide) is by reason of its alread

"the entire alphabet of the combustion of the curburcted hydrogen gas," which gas, he ctates, requires two volumes of sayges for its compps, "Which gas, he claims, requires two volumes of suppres for its combestion. This is by no means the cose with coal gas | for, although true carborotted by-dropes requires this quantity of expgess, coal gas is no extremely variable in its composition, that its rembining proportion of expgess varies from seven-eighths of a volume to two volumes.—[Page 52 contains this "alphabet of combestion," which is a series of contra-dictions throughout; even the create given for this page particle of the same singular character, for words stated throein, as those which require correction, are not to be found in the places pointed out.]

3th. There is no foundation whatever for suppressing [as Mr. Williams foss), that the reason of surbania exists influencing at a lower temperature.

lots. There is no responsively without the responsing the mr. where the responsive been read gas, is because the former contains built its equivalent of expensive for, if we, rachonic sold, possessing more crygon, aught is influential society, but will not, in fact, influent at all.—(Fishe page 68, already

sation seets.]

6th. The questity of anygen consumed cannot be a convent measure of he heating effect 'on Mr. Williams states', except as engageds bedien of he nesture. It is true, the best of holies of like composition very be reportional to the caygon consumed, but this caused become someoners.

(by weight) will be nearly as two to one, while the heating powers will be nearly four to one, and so of other esbetances.—"This quantity of oxygen expresses the relative heating power of the different coals, in admitting that the quantity of axygen which is consumed in its perfect combustion;" page 19-]

Perhaps the above errors will suffice for the present, and the lesson can be renewed at a future time. I have already pointed out that the review of my essay, by Dr. Kane (so highly commended by Mr. Williams), is entirely erroneous as to its facts, in consequence of Dr. Kane not having read the essay at the time he reviewed it—that Mr. Williams is completely wrong in his chemical views of my letter, which was published in your Journal of the 8th instant—and I now (not withstanding the certificates of excellence which Mr. Williams has published from high authorities) dispute the accuracy of his views on several of the points on which he lays the greatest stress in his Treatine on the Combustion of Coal—Parasidabilitar cereorum exercitus, duce leone, quam leonum cervo. Mr. Williams has himself invited the discussion, and I shall be glad to see his replies to my several statements. see his replies to my several statements.

Earl-street, Blackfriars, January 24. CHARLES HO

ON THE POWER AND CONSTRUCTION OF WATER. WHEELS.

ON THE POWER AND CONSTRUCTION OF WATER WHEELS. TO THE EDITOR OF THE MINING JOURNAL.

Str.—I beg leave, through the medium of your valuable Journal, to call the attention of my fellow-miners to the (I think, too much neglected) subject of water-wheels ifin so doing I hope it will be the means of making that most simple and cheapest of all moving powers more useful and efficient than it hisherto has been, for I think there is room for great improvements; and if by these few remarks I am about to make I shall be fortunate enough to draw the attention of some of the master minds, who are in the habit of writing to, and reading of, your valuable paper, I shall think myself doubly recompensed for the little time I may have bestowed on the subject.

shall think myself doubly recompensed for the little time I may have bestowed on the subject.

1st. I think the velocity of our wheels is generally too great, for Smeaton, whose data was founded on experiments, says three feet per second of time is the best velocity for wheels of any dismeter; and Banks, who varies from this rule, says that the velocity of wheels should vary as the square root of their dianceters, neither making the velocity of a very high wheel more than from three to seven feet per second of time, whereas many of our wheels are driven at the rate of from sine to sixteen feet—in fact, I saw one, some little time since, fifty-two feet in diameter, which revolved occasionally six times per minute, making a velocity of more than sixteen feet per second. Now, according to the laws of falling bodies, a great part of the top of the wheel is entirely useless for the water, for the first sixteen feet falls only as fast as the ring of the wheel is moving, besides the great loss that must be felt on the remaining part, for it is natural to suppose that the nearer the velocity of the wheel is to the velocity of the water the less pressure there will be on the backet by the water.

velocity of the water the less pressure there will be on the Decare by unwater.

2d. To make a whee', whose velocity is so great, receive its water, the buckets must be very wade in the recent; and the wider they are in the mouth the greater their angle with the ring of the wheel, and the greater the angle the sooner they will discharge the water after passing the centre, and consequently diminish the power of the wheel.

3d. I think this velocity cannot be diminished much, with the present mode of fixing the cranks, for it is evident that the resistance the wheel meets with is not regular and uniform, for as soon as the crank gets at "half stroke" the resistance is at the greatest, at which time it begins progressively to decrease against it gets "up stroke," when the wheel has no resistance at all, and in like manner when it goes "down stroke," therefore it is evident that a wheel under these circumstances cannot move at a slow rate, with a uniform flow of water, at a uniform velocity, consequently it is better that a wheel be driven fast than that it should stand utill when it meets with its greatest resistance is over the velocity will be very great through the remaining part of the revolution.

the revolution.

Sir, with these few remarks I beg to close this letter, and, if their fallacy be not shown next week by some of your able correspondents, I intend to send you for insertion what I think to be a remedy for the evils apoken of.

A Menn.

Bickleigh, Jan. 18.

ADCOCK'S AIR-BLAST PUMP.

TO THE RESTOR OF THE MINING JOURNAL.

SIR,—Having occasion to get a lift of pumps fitted in a coal-pit of mederate depth, and having heard something of Adcock's air-blast pump, I should feel obliged by you or any of your numerous readers stating whether it has succeeded in practice, and, if it has, what are the advantages possessed by the blast-pump over the common lift-pump. At Pemberton Coiliery, near Wigan, there was some time since, I think, one of the blast-pumps fitted up in a pit 300 feet deep, the success of which, if excertained, would go far to establish the advantages held out by the parentee.

A. E. J.

THE RAILWAY SYSTEM—PHOF. VIGNOLES'S LECTURES. TO THE EDITOR OF THE MINING JOURNAL.

Str.,—Professor Vignoles's loctore at Wormwood Scrubbs, of which

THE RAILWAY SYSTEM—PROF. VIGNOLER'S LECTURES.

TO THE BOTTON OF THE MISTINS JOURNAL.

Srn,—Professor Vignoles's lecture at Wormwood Scrubbs, of which you give a summary in your scientific Journal of Saturday leat, is of great importance. The principal topics embraced are—the advantages of stationary over locomotive-engines—the atmospheric railway—and the practicability of sispensing, either wholly or in an essential degree, with cuttings and ambankments, in order the better to ascend acclivities—on each of which subjects allow one to offer a few reflections.

Everybody must, in the abstract, agree with the learned gentleman, that stationary are more advantageous than travelling engines, for producing locomotion on railways; but the difficulty of their general application is in an case triffing, whilst in many, if not in most, cases it is insermountable, and, therefore, their use can be of only partial adoption, unless, indeed, the atmospheric railway should perfectly exected, or some other principle, yet to be discovered, be brought into action. In no instance could stationary-engines, with any propriety, he placed at more than three miles apart from each other, and even at this distance the frequency of simpoping, thus rendered indispensable, would, on any long line, be a serious drawback in reference to speed. On each a railway at the Blackwall, which counts nearly twice as many stations, or stopping places, on the read is miles long, the system, though in many respects attended with great inconvenience, upon the whole, works well, for, by the ingeneity and peculiarity of the arrangements, applicable only to stationary-engines, this railway forms, in effect, several modis of conveyance, virtually as independent of each other as if to each station a reparate and distinct line had been constructed; but, out of the metrapolis, no other incality could, perhaps, he found, where any accessity could be full for tabling up and acting form passengers six or sight times in on short a distance.

That the principle of th

there has asserted to be fast, son be substantially verified, a bright prospect assuredly opens itself to our view. The occase of the atmospheric rulewy depends, on it has olways appeared to not, on the cortainty with which a last ions will perform its efficy in melling, on it pesses, a composition of been-wax and tallow, in order to render a growned cylinder or take six-tight! Here is a field of detail and complexity which I absolute to not be the cortain of the cor to enter, for the contingencies are almost as numerous and varied as the above on which my feet most be expected to trend. But admiring (improbable as all this in) that the iron should always retain the requisite processes, are not to be found in the places pointed out.]

There is no foundation whatever for exposing (as Mr. Williams see), that the resound of exchange which require for exposing (as Mr. Williams see), that the resound of exchange which each can be a lower temperature for exposing for the former contained half its equivalent of exposing for the former contained half its equivalent of exposing for the former contained half its equivalent of exposing for the former contained half its equivalent of exposing for the former contained half its equivalent of exposing for the former contained half its equivalent of exposing for the former contained half its equivalent of exposing for the former contained half its equivalent of exposing effect (as for the follows of exposing effect (as Mr. Williams extends as exposing effect (as Mr. Williams extends as respected bodies of a solver.) It is true, the base of hodies of like composition new be exposed to the exposing consumed, but this consent of extends of the exposing effect (as Mr. Williams extends homeons a sonorme remperative effect for all bodies; because, for isoteness, is the cases of the exposition of the exposit

after one certiage has performed the distance, and another then traverses the line? But the learned Professor announces that it is not necessary for the tube to be sit-tight, inaxmed as half a vacuum will accomplish the object. Here two questions arise—Int, how can you be certain, with a tube not perfectly air-tight, that a quarter vacuum will not be produced, instead of half? and, 2d, supposing the latter could always be depended on, what must be the size of the tube to gain, at half vacuum, the requisite power, and whether its diameter, together with other considerations, might not so increase difficulties and expense, as to render the inventions valueless? We all recollect the proposed poseumatic tunnel to Brighton, and it is impossible not to consider the atmospheric railway subject, in a degree, to most, if not all, if the objections and difficulties applicable to that projected undertaking. Until, therefore, a sure, simple, and easy method shall be devised for making a tube sir-tight at railway speed, I am compelled, contrary to my wishes, to despair of seeing nalway trains dragged or propelled by atmosphoric pressure.

Mr. Viguolos, I rejoice to find, virtually admits deep cuttings and high embankments to be an evil, and looks forward to the atmospheric railway becoming the means of ascending accivities, whereby the necessity of such embankments and cuttings would cease to exist. The application of atmospheric power would certainly supply this desideratum, but much la yet to be done to demonstrate its practicability, whereas, without it, the means, which, in principle, is subject to no practical objection of accomplishing the object, is at hand. I allude, as you will probably anticipute, to the use of wooden driving wheels on wooden rails, described in my letter inserted in your Journal of the Sti instant, with the aid of visiducle, susceptible of being constructed at a considerably less cont than that of making high embankments and deep cuttings; and hereupon I would beg to put it to the learned Profess London, January 10.

GEOLOGY-A NEW SYSTEM OF PHILOSOPHY. BY HENRY GRAHAM MONTAGUE, BEG

THE PHENOMENA OF THE OCEAN.

THE PHEROMENA OF THE OCEAN.

In entering upon a subject of such vast importance to man as an intelligence of the first order upon earth, it is necessary that we take a passing review of the phenomena of living orders, species, and genera, and of the elementary principles, proximate principles, and compounds proceeding therefrom, insamuch as life was primarily exclusively oceanic, and comsolidated marter constituting oceanic earth was also calculately oceanic, it follows, therefore, as a matter of course, that the ocean, as the grand laboratory in which matter was primarily produced, is the first to merit our attention.

It billows, thereture, as a matter was primarily produced, is the first to merit our attention.

Life is the acean rivale in heavity and abundance terrestrial life, and its orders, genera, and apocles, so far as is known to us, are exceedingly numerous, and diversified in their capacities and powers, quantities and qualities, graduating through various links of production, from the infusoria, microscopically discovered to us, to anissale of red blood, having heals and the compilated structure of the capacities and powers, the infusoria, microscopically discovered to us, to anissale of red blood, having heals and the complicated structure of the capacities. It is not a continuous colors, madrepores, milepores, actus, fungi, conchibren, nature, molluces, coreals, madrepores, milepores, actus, fungi, conchibren, nature, molluces, testaces, and the various orders, genera, and species of sea plants, are all los ally disposed—the one species, or commissively particles of the many, being the concessual cause of production of another, the one species uniting, or contending, with another species, the tenure of life being a perpetitud warfare against life. As living beings, all are subject to the like vicisal-variare against life. As living beings, all are subject to the like vicisal-variance, they produce, by their chemical and mechanical action, animal scaliver, expendented, and increased with the increase of the living system; in ideath, the consolidated matter thus produced from the climan produced from the climan produced from the climan produced from the climan produced from the actual to the medium in which the living body was produced, becoming an integral part of the one great whole, termed earth, the posicious increased with the increases of the living system; in ideath, the posicious actual process giving origin to particular aggregates, cometimes bleaded together in all the wildness of confusion, the budies, and relia of budies, forming a cheotic mass, but as, from local affections, documentation at the surfa tention. Life in the ocean rivals in beauty and abundance terrestrial life, and its

receives are finally deposited in other level portions all is descible, that place in a re-the deserts of the earth, and, like them, energing from place in place in a re-the deserts of the earth, and, like them, energing destruction for all genera and openion coloperted to their benefit influence. Here may be seen solitary groups rising above the levels of the values, formed by astro, baland, and other particular species; while, within the trupinal band, the amphible experiencement openion, in its built of agree, within the waters, end-sing the whole placedary body, and preducing, by the slow, but certain, accreains of matter, islands and continuents of the forcestral section.

seemts of the tempetrial north.

Pulypi, the sevet unexate of enteral existences, preferre the most important part in the constructs of enteral particles and the most unexate of enteral particles. In the lower depths of the mean they are so disciple organization, and of simple primary qualifies; but, as the consolidating matter assumption, as, hoursels the tempinal band, the temperature of the value learness never featurable for the description of emperature of the value matter are assumption of the second of emperature featurable, the second of emperature from the increase of motter, in the development of pulppine estimate, the second respective feature the feature of the second of the second of the second description of estimate of the feature of the feature of the feature of the feature of the second of the second

ments of the tempetrial sorth.

Which constitutes their bulk of eggregate, and which eventually consoli-dating, closes up the chambers of communication, and thus destroys the vital action, or diverts it into one common channel of communication, that unites and directs the mechanical action of the whole body. Every chaple body, however minute in its parts, has limits to its extent—its limits being defined by, and depending in its nature, quantities, and qual-tities, and the influences by which it is generated and governed. Every compound animal has also limits to its extent, such limits depending, in like manner, on its nature, quantities, qualities, and local influences,

Stice, and the influences by which it is generated and governed. Every compound animal has also limits to its extent, such limits depending, in like manner, on its nature, quantities, qualities, and local influences, the same being perfect results of the day, atill perfecting, by acquisition of parts and quantities, and passing through the successive stages of development, from birth to maturity, and thence to decay.

It is laid down as an established fact, that all the corals, and animals of the like nature, which secrete lime, are polypi or compound animals, united in life, and silvishis in their quantities, in like manner with polypi of sinsple golationes extence; this is not exactly demonstrable from the servestion; for instance, the seas manifrooms, or fungl, spring from the servesterial matters, being also of similar confirmation and character; from terrestrial matters, being also of similar confirmation and character; in their progressive grawth the stem and crown gradually and simultaneously increase; they attain at all theirs a defined size, if fee from distensity increase; they attain at all theirs a defined size, if fee from distensity morease; they attain at all theirs a defined size, if fee from distensity are seasoned with terrestrial mattercously affected. Again, in the living state, if a pertion of the body he braken of, it almost immediately leaves its vitality of like phenomens are observable in numerous species of madrepores and corals, having defined form in their quantities, by which species is discussed, and general action passing through the whole system, in the seasoned with terrestrial trees and plants, the milk-like juice being searces whole se one.

The phenomena are differently exhibited in the tabulipora rubrun, or

they the whole so one.

The phenomena are differently exhibited in the tabalipora rubrun, or sed pipe coral; here a single casp arises, something like the belt of a primruse, being a skin-lite film of a parpliah hue, and slightly calcareous; advancing towards maturity, the continued secretion of calcareous matter advancing towards maturity, the continued secretion of calcareous matter gives trigidity to the parts, the supersbundant matter then closes the spea, and continue had a vertice first and corner through the propressive stages of gives rigidity to its parts, the supersonance matter through its progressive stages of and another tube springs forth and passes through its progressive stages of growth in a similar women. The white corais of this order spring from smeal greater deptile, and consulidate, or decompose, in vast aggregate enusses, locally dispused in families, or uniting with other organic bodies.

ng matters, and decomposing matters.

Most of the species termed madrepores, corallines, and corals propagate through the means of their juices, which stude from their cellular cavities, and, falling on the soil, become attached thereto, and, under favourties, and, falling on the soil, become attached thereto, and, under favourties, and, falling on the soil become attached thereto, and, under favourties decommend, in their favourties decommend, by the same forces which govern crystallination, in their indexedopment, by the same forces which govern crystallination and their multiplication. use, by the forces which govern vegetable bodies in their multiplication, parts; and, in their progress towards easturity, by the Laws of organic, a their organical structure becomes developed. Their food in received of parts; and, in their progress towards unsturity, by the laws of organic life, so their organical structure becomes developed. Their food is received through the openings, or cellular pores, and consists of animal matter or the classents of the medium in which they are placed, which, by excess of oxygen, is converted into a milky fluid, and deposited in its quantities in the line of action animal matter, carbon, lime, and other qualities and compounds peculiar to the species, by the reader specially of life in budies of complex effecture. From their devel posent, and through all their subsequent changes, they exhibit all the phenomena of local trees and shrubs, being uniform in their development, growth, and theory, propagating by their seed, but their development, growth, and decay, propagating by their seed, but never by their cattings, which latter would be the case, if, so asserted, never by their camings, which latter would be the case, if, as asserted, they were polypt. Like terrestrial plants, they have one general basis for their solinal structure, although many species, in addition, have properties and compounts possible to themselves, developing, besides guistine or assimal matter, lines and carbon, phospherus, from, congussia, cilorino, and sumerows either compounds—those mixed qualities composing the circulating juices, or the animal frame-work; they soldows attain any considerable size, and, from the nature of their compusition and organization, are generally inimical, while living, to being the bases of other living species; but is death they become enveloped in the basis of continuous cores, and smartines, in this manner, become identified with the matter soral, and cometimes, in this manner, become ligatified with the matter by which they are surrounded, entering with the whole into the state of stone rock -at other times they are locally disposed, so the accidents

This uniformity of arrangement and organic action leads us rather to This uniformity of arrangement and organic action leads us rather to infer that they are regim animals, or a connecting link of both, for, not withetending the animal matter severted by the functional operations of life identifies there as belonging to the animal kingdom, the action of life identifies their animal matter, carbon, lime, and other compounds, are predicted, and the organs of reception, retention, and solice power by which they draw that mourishment from the medium in which they live, as also the set of proceedings by their send, or by a division of their parts, and the ultimate development of their form to a definite extent and in a definite form, and organical arrangements of the several compounds of which they are formed, as strongly identifies them with the vegetable hingdom; and, if amounts is found in he a constituent of the living body, so is it certain that earlier forms a constituent also. The colosities peters Singdom; and, if amounts is found to be a seculitum of the living body, so is it certain that earhors forms a constituent also. The colorates palling which is formed in every individual of the vegetable kingdom, is also a distinguishing observative in the corals and madrepores; the collular a distinguishing observative of the corals and madrepores; the collular as different sposies and general, the ligaeous fibre is substituted by the buddlesses sposies and general, the ligaeous fibre is substituted by the temp matter, which supports and constitutes the solid part of the body, also formed as a cross of depositions, which, after the body has attacked maturity, gradually encrosed upon the voxumlar sexuals, and, by acrossing forther circulation, destroy the vital principle. In like manner with vegetables, they are parameterly fixed upon a bases, advancing in excessing further circulation, destroy the vital principle. In the manner with vegetables, they are personnently fland upon a bases, advancing in the tree test growth in the line of inequalse, imported by light and heat. This vegetative process is mentioned not only in the tree-like rurale, but also in temporary and process is mentioned to only in the tree-like rurale, but also in the same appears, mechanisms, the meandation, astro, and summerous other flems, appears; it he meandation, which, in its skulcton sixts, while the beautiful general; the meandation of the heaves he had, while bring, is a green mass-like plant, where the processing of the heaves, and Desing of rapid growth, whose fraction, whose bring, is a green most once pount, Being of rapid growth, whose fractionally disposed in shallow, warran, and Granquil stature; the time required for its full development, and the size it many attacks, deposing on its position of latitude, dip, and inclination; it is subdom from the great suptlement in programme in development, as its may attain, depending on its position of latitude, dip, and inclination; it is subdom flowed in great applie—as it programes in development, as its parts become more stony and soliminod, and the salinar regularity opposes. On the essantion of its, the skeleton frame aims remained, and which, from the positiones nature of the materials, if undistanted by found others, from the positiones nature of the materials, if undistanted by found others, and which, from the positions for a nonneasion of agre; in general, knowner, tends nonneasing gravitatily tourspread with the growing cera around it, the whole moses being conversed into the parts of the manufacture of the nonneadition and estimate for his parts visible; the december of its manufacture of the manufacture of any naturalisis to coppose that the period hity of the meaterful beet hid estably of its meterial line had many networks to suppose that it may of time required to perfect high devaluement, is very great—Threshory, of time required to perfect high devaluement, but the living hosy, assumes that it must passed high the base must themsond years in ferening. The time required for the base been must themsond years in ferening. The time required for the chaotic and devaluement of cleany recent depends, at all times, upon the chaotic and devaluement of cleany recent depends. tion, and Ivention free When it is committeed that the point opers attains its entirely in nine passes, it cannot be a matter of curyolas that volume and genera of loss conpeaces, it exement be a mostian of conjustes that evident and genera of loss con-confidented observations, alternial persists in partia and mountaines in a loss present of steam, and enemy of the conditions which are trained affected to the shocks of mostlesson, but a low years old, attent the explainly with which they great. In the Had See, which is particularly favourship to the propagations and houseast of animals receiving lines, their capal intervents is foully attention. Do derived from our knowledge of the greath of while and and recal in the Shutteressones, as online of by various automalian times the exchange of the falsons of creaks, as well as firms precessed abstractions. Maringli in-the the tile white recall, and where the sea is amount absorblated in exercise agreemed to the sensit, and where the sea is amount absorblat, inin salitate framed in a western expansive, and space in the earth; the the coveres are desputhed of in, are yours are allowed by the fisher One it is solitone fromt in a western expenser, and before to this secret; then when the covering our despectation of it, has point and six streets in this dishers. One he regeneration, and in this time it attains its exhercis long's and for the regeneration, and it disappears.

This is constround by Papagina. This is constround by Papagina. This is constround by Papagina. The same is the test that, in the meighteres hered of line Stephens, the creations and attains here a feet is too years, and is printersize to the depict or a distriction tent in two years, and is printersize to the depict or a distriction tent of the same at displice ears and the same at displice express these of the fact of the same at displice express these of the fact of the same at displice to the same at displice are one account the same in the same at displice are one account the same in the same at the displict is said to require the paper of the same at the displication of the count line of the paper of the paper.

qualities of the body. In trupical sens, the heat being generally manifest, the resphites spread themselves abroad over the valleys of the deep, without reference to inclination, as in colder seas, their nature and qualities being determined by the temperature or depth. I have been more particular on this head, because these matters appear to be but little understood, nor do I find a work extant in which long and patient observation of the orders, genera, and species secreting lime, has justified the explanations given of their origin and growth, and of the important part they take in the great and continuous work of production. The term polypi is much too vague and undefined to be sufficiently understood, for, under that term, are classed many of the animals of higher organization—thus, according to the present understanding of the terms, every plant and every animal may be classed as polypius—every organic body increasing by the multiplication of its parts; whereas it ought to be confined to those simple organic bodies, acting independent in their parts and quantities, so that, on separation of parts, the several divisional parts, as in the freshwater polypi, experience to loss of power in this division, but still continue their functional operations, bering perfect results in their separate state, and perfect results as one whole.

On the other hand, there are species of coral limited in their extent only by the limits of action by which they are produced, or by the limits of the medium in which they are placed; these species increase without defined order, extending over vast areas of warm and tranquil seas. In hullding beneath the main body of waters, far from continents, the tide regulate their disposition, as the atmospheric heat regulates their nature, quantities, and qualities, for heat and freedom, from local disturbances, are absolutely necessary to the production of ponderable masses. Thus, in the warm quiet sea, termed the Pacific Geeon, there is a vast chain of mountains formed, and still forming,

in the Red Sea there is a triple chain of submarine me ing upwards of 500 miles, running parallel to the Abysainian and Arabian chains, the outer reef taking its direction and disposition from the tides; but of this I shall speak more particularly hereafter. These portions of the waters, together with local portions of the South Sea, the whole of the Indian Ocean, and the Persian Gulf, embracing a geographical range of many thousand square miles, are rapidly filling up, by the operations of oceanic minute, which secrete lime and other compound substances pseudlar to oceanic life.

The waters of these tropical text town with the life of the standard product of these tropical text town with the standard product of the standar ing upwards of 500 miles, running parallel to the Abyasinian and Arabias

The waters of these tropical sees teem with their living myriads, it The waters of these tropical seas teem with their living myriads, in number and variety of orders, genera and species, and in and throughost the whole, orders diverge into genera—genera diverge into species, as, in the increase of matter, the newly-formed earth receives additional heat. In the lower depths, as we desceed, the animisis end-plants attacked to the soil exhibit greater simplicity in structure and composition; the living system, gradually disappear, as, on the other hand, they approach the surface, these compounds become more abundant. Sponges, proach the surface, these compounds become more abundant. Sponges, corallines, meduses of large diamensions, star fish, and forms innumerable, crowd the shallows, when free from local disturbance, the whole appearing through the blue transparent medium, like a beautiful garden, filled with flowers of avery hue, with shrubs, and plants, and trees clothed in beauty and variety, and with fishes rivalling in the splendour of their colours, the tropic birds, forming one harmonious whole—the retreat of contending myriads—the mighty meansoleans of the dead. In one locality cirrhipedes, grouped in families, gradually build up their huge masses, the build of which consists of eniusal matter; in another place a palace-like building appears, having magnificent portals, and a roof of the richest fretted work, from which the purple massed and the pedusulated cirrhipeds hang in solitary groups or united clusters—the whole the richest feetled work, from which the purple masset and the petutional deleteration of the whole fairle forming a rich confrast to the pure sands of the valley in which it stands in another place the pearl syster, in its generations, covering a large area, rises fethum after fathom, until, perchance, the whole generation is swept into the jews of death by some local disturbance, burying the whole beneath an accumulating mass of sands or other decomposed matter. Upon the rains of preseding existences the conclusion, and molluses

Upon the rains of preceding existences the conchifers and ose themselves in groups and families, or are generally distributed reding to their neture, habits, and desires; while, above these deposits, syriada upon myriada of creatures crued ing, suffering, and destroying each other perpetually. In and throu ing, suffering, and destroying each other perpetually. In and throu ing, suffering a topical regions, life, in its varieties, abounds, and, so a task consequence, the sum of matter of which oceanic certh is co acy consequence, the sum of matter of which occanic cartil to con-ind is continually increasing, and, in its increase, receives additional ers of generating and propagating organic orders, geners, and species, incorphers, whose observations are confined to the cubier seas of upe, and who view with astonishment the immense shoule of fish rating from place to place, and furnishing food for millions of the rating areas, and countless millions of encours, occupants of the sense courts, can have little conception of the number, variety, and extent of tentian race, and countless millions of enemies, occupants of the same elements, can have little conception of the number, variety, and extent of life beneath the tropical band, or of the vast increase of the earth pro-oseding from this nucessing accumulation of matter, produced by life; it is true that their attention has bree recently drawn to the filling up of the hed of the Adriatic, by maxime depositions of calcurates matter, and to recent for mathinan of organic deposits in other seas, but they cannot take in the company of thought the stappendons expregation of matter. ake in the compass of thought the stupendous eggregwaters, and, on the

to latter, their crosts appearing above the waters, and, on the decrease of Beneath all latitudes of the deep, like causes produce like effects; where is temperature and local and general action ate also—thus the genera of madrepores, estre, sponges, mediase, as ther species, are recognized in the east and in the west, and fans it is the uniformity of life there is an uniformity of matter proceeding from life, the deposition of contre forming stratum composed of occanic organic bodies, and their decomposed particles the unsering indications of the temperature under which they lived and prophysical in their generations—these the underposes, the undiagon, and other animals which server lime, composing book of our hill strain, south, of necessity, have examed and prophysical within a medium, and honorth a temperature object to their contrare, quantities, and qualities—and thus every lime, sounce, every formation of chaik, solits, occan mark, and calcareous matter, however remote from those latitudes in the present day—however for removed or alreaded whose the element in which they were produced—mate, while forming, have been beneath tropical and quiet scar, during the he uniformity of life there is an uniformity of matter proceed east, while forming, have been beneath tropical and quiet man, during the

ages requirits for completing so vast so existee.

Numerouse genera and species are, from their natures, confined to particular localities of the waters, and to certain depths; but other orders, genera, and aspectes, are generally, and some are universally, diffused, nationalizing their form and qualities under every latitude, their possible habits and organization selegating them to every variety of clime; but, babits and organization selegating them to every variety of clime; but, with few resemptions, locality has a marked and determinate influences in the organizations structure, in its quantities and qualities, such almost invariable depositing on final send to opposite vaters, but, removed from themselves attain great size and locatiy is tropical waters, but, removed from themselves in the send collection of t uplisting so vist so exister threads labe critics used, they would seem purish, or, otherwise, their pro-gency would require degenerate, the regard action, to the abstraction of the natural quantity of acygon being less fully according, the powers of acrossing lines and other products are less sensibly developed. Whe would think of transplanting the pearl system to the bed of the Germans Comm? Resouved from the native element, it might purchase live, but its progency would be of discinniced size, and, in the loss of actions, there are produced deplay of cultures would also be less. The balant, literating was appropriate measure on the principle of Party, are a glaustic surveys. Completed its properly would be of discitorished size, seed, in the loss of serious, three spheroid display of colours would also be less. The balant, forming was appropriate research as the remain of Ferr, are a gignatic spream, completed with the like gream extensing in the same of Europe, where they exist in with the like gream extensing in the same of Europe, where they exist in the like gream extensing in the same of Europe, where the trap exist and huntry, we are thought from the trap and flowlites. The correl field, and other fail of responsing mould groups and flowlites. The correl fail, and other fail of responsing mould groups and flowlites. The correl fail, and states allow gream, and deciden the second gream and the trap and the trap and the trap and the complete which is the versus and the complete and allowed waste them to discuss and an accordance of the complete well used the entering of flood, has always a started and discreminated flood tong commented contain the complete of the complete of flood and the entering of flood and discreminated flood tong commented contain the complete of the compl meers, and serooms which waver the sarch.

The numbers and variety of saimals and vegetables of the deep are incalculable, constituting an immense bulk of aggregate, part of which is derived from organic and inorganic matter received within the system, and constituting the food of numerous orders, geners, and species; and the bulk of aggregate proceeding from the squeous element, the atmosphere, or the proximate principles and compounds, locally or generally disseminated through the waters. Of the animal and vegetable food received within the system nothing is lost, the sum of matter received uniting with the living body, or uniting with the wreck of matter, in ith the waters; of the proximate principles and compounds, and of the lowestery principles received within the living system, a portion of them is united chemically or mechanically, and thus assumes a consolidated the waters; of the project within the living system, a portion of them mentary principles received within the living system, a portion of them is united chemically or mechanically, and thus assumes a consolidated forth to the waters. The nature of the squeous medium, and the action forth to the waters. The nature of the squeous medium, and the action manifest therein, determines the nature of the living body—thus in the manifest therein, determines the nature of the living body—thus in the manifest therein, determines the nature of the living body—thus in the homogeneous waters homogeneous animals only can be produced, the organical structure being, in this case, wholly composed of the compound elements, forming air and water, and constituting, in the chemical and mechanical union of these elements, a new result or product during the life of the animal, and a changed result in death; the consolidated atomic quantities produced by life in its functional operations, and the consolidated frame-work of the body, may lose a portion of its parts, which again rolatilise, and are disseminated through the waters; but every organic body performs, in its degrees, the general operation of converting the squeous into consolidated matter, and, by life, produces a result differing from the medium in which it moves.

only partitions into consolidated matter, and, by life, produces a result uniting queous into consolidated matter, and, by life, produces a result uniting to the medium in which it moves.

The analytical chemist, to whom we stand indebted for many of our The analytical chemist, to whom we stand indebted for many of our The analytical chemist, and the phenomenas obvious to the acuses, discovers that, however multiform the phenomenas obvious to the acuses, discovers that, however multiform the phenomenas obvious to the acuses, discovers that, however multiform the phenomenas obvious to the acuses, discovers that, however multiform the phenomenas obvious to the acuses, discovers that, however multiform the phenomenas of the produces a result united to the produces and the produces are result united to the produces are resul to the senses, discovers that, however multicons the phenomena-nic and inorganic bodies, upon ultimate analysis they resolve into nem compounds, all being mechanical admixtures of these com-why, then, should it be made a matter of surprise, that life pounds. Why, then, should it be made a matter of surprise, that life should be the primary cause of effects so numerous and so complicated? Animals of the simplest organisation develope ammonia—regetables of simplest organisation develope carbon—the one and the other are of the same principles, but variably compounded; the like may be said of animal matter, gelating, albumen, and other compounds, developed in the ermanic holy.

Production and reproduction is incressant within the waters, and orders, ners, and species continually multiply in numbers and variety, sole being the unconscious architects of the earth, and the subject whole being the unconscious architects of the earth, and the subjects of local action and vicissitude, existing by sufference only. In the division of orders and genera into species, is distinctly marked the nature and qualities of living beings, and the causes of effects produced in change; in the progressive development of proximate principles and compounds in the progressive body, and in the fossil and mineral kingdom primarily oceanie; organic body, and in the fossil and mineral kingdom primarily oceanie; and, autosequently, from the united action of terrestrial and oceanic bodies, compounded of both, we distinctly trace the progressive development of the matter of this planetary body, termed earth, and the progressive development of oceanic bodies, of simple organization, and, eventument of the matter of this plauetary body, termed earth, and the progressive development of oceanic bodies, of simple organisation, and, eventually, the simultaneous and progressive development of orders, genera, and species, from coajoint causes, oceanic and terestrial. In the ocean waters, countless myriads upon myriads of animals and vegetables live waters, countless myriads upon myriads of animals and vegetables live waters, countless myriads upon myriads of animals and vegetables live waters, countless myriads upon age-generation upon generation—appears and disappears in succession, and, during these revolutions of time, the carth continues to increase in its parts, quantities, and qualities, concentrating in its bulk of aggregate the elsmentary principles of the atmosphere and the waters; thus the earth is a perpetually varying result, increasing in every vibration of time, and rectually varying result, increasing in every vibration of time, and ging with its changing elements; increasing of necessity, and still con-ing to increase, an long as the ocean waters continue to cover the earth, hanging with its changing ele

tinuing to increase, so long as the ocean meters continue to cover the earth, The calcareons orders, genera, and epicies, do not extend to say conditionable depth beneath the waters of tropic seas, the depth depending on the latitude beneath which they are produced; the scophice being most shoundant and more diversified as they approach the curface, or seconding to their preuliar dip and inclination. All opecies of the madrepore and coral orders, in the growth in the lower depths, advance towards the rays of light and heat; but where the cus is nearly vertical, they extend their growth in every direction; all increase by the local or they extend their growth in every direction; all increase by the local or general multiplication of their parts—the sponges, (ungi, and more degueral multiplication of their parts—the sponges, (ungi, and more degueral metallicate corallines, together with echini, imports, rock cysters, sea worms, and numerous other orders of mollucos, are scales found at any conductable depths—intense best, communicated through the shallow meedium, -intense best, communicated through the s derable depth—intense best, communicated through the shahow seems being most favourable to their development, gad essentially necessary the existence of some orders. In proportion to the degree of heat, so they secrete lime and other compounds; and the plants secrets so magnesis, and uther compounds. The degree of heat is also manifest the various tribes of fishes, in the production of medians, son assuments the various tribes of fishes, in the production of medians, son assuments of the production of medians, son assuments of the production of medians. rescent infusoris, the latter being so abun alities as to give a phosphorescent light to the water, myria minimed in every bucket of enter drawn from themce—in feet, t Ocean and the Red Sea, in their lo with the living and the dead, and, as will be hereafter expla waters are rapidly disappearing.
NATURE is TRUTH !-- Many of the phenomena of this

hody proceed from numerous causes, but the result is is the primary and fruitful womb of production, life be erous causes, but the result is true. organic form eliarchitect of consolidated matter; the organic form elected by the c tions of heat and electric influence, and preserved from destroying ences around it, passes through its progressive atages of growth propagating its kind, and, in death, giving its atomic quantities of earth. Where grouped in families, or where the elementary consti-or all assimilate, their bed or stratom consisting of their remains, pro-pagating appearance, and produces a succession of uniform result solidated matter; the an uniform appearance, and produces a succession of uniform results.

Having thus taken a general review of life, cardusively oceanic, I pre-

pose, in my next, to examine of the accanic organic body on its ents the fossil kingdom.

role. In last week's paper, line I should read reats her leverage "-and in time 104, for a line

IMPROVEMENTS IN PRODUCING AND APPLYING HEAV. IMPROVEMENTS IN PRODUCTION AND APPROXIMATION OF PRODUCTION OF IN PROPERTY OF PROPERTY OF THE ROYAL MILET AN WASSETT OF THE WITTERS OF THE SPECIAL OF THE SPE terest manufactures, by employees, code, code, peat, or wood. lying carbonic uside t coal, come, pess, or where blast-furmairs are used, this carlallargic operations where blast-furmairs are used, this carlages is obtained in a pure and uninflament scate; from the blast from the blast-fo gas in obtained in a pure and uninflament state; from the blue taken some distance belief the mostle, and conveyed, by emitable apparatus to any other formers that requires to be less in a now made of heating formers by means of carbonic catife may be obtained from a separate former expressity constructs purpose. 3d. In a mode of applying the throughput to former the withdrawal of the cusbonic axide gas in the working for chitated, and the combination in the furnaces of branch and the maixture of heated sie with the earthonic oxide gas, thus producing a maixture of heated sie with the earthonic oxide gas, thus producing a maixture of heat. This invention is stated to be applicable to the flutte based in the different processes for the manufacture of love, and the transmit of other entered generally, so well as to owns or furnaces require a high temperature, such as given or pattery formaces, gas works, brown a high temperature, such as given or pattery formaces, gas works, brown a high temperature fluid, and as the purpose of generating steaded, and these plication to the unanufacture of iron is minuting detailed, and thuster plication to the unanufacture of iron is minuting detailed, and thuster plication to the unanufacture of iron is minuting detailed, and thuster plication to the unanufacture of iron is minuting detailed, and thuster plication to the unanufacture of iron is minuting detailed.

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MINING CORRESPONDENCE.

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ENGLISH MINES.

***BOLISH MINES.**

BOLISH WINES COMPANY.

Jan. 24.—I beg leave to inform you that the lode in the 110 fathom leve cest is one foot eide, and worth about 10%, per fathom. In the 100 fathom level, in the 100 fathom level, in the 100 fathom level, in the 100 fathom; in this level, cast of Wall's shaft, the lode is four inches wide, with stoces of ore; the lode in the wines staking below this level, on the couth part, is six inches wide, and internalized with ore. The lode in the saviern stopes, in the back of the 100 fathom level, is eighteen inches wide, and worth 36%, per fathom; the lode in the western stopes, in the back of fathom level, the slode is fifteen inches wide, and worth 18%, per fathom; in the back of this level, the isode is fifteen inches wide, and worth 25%, per fathom; the lode in the western stopes, in the back of fitto, is two feet wide, and worth 35%, per fathom; the lode in the western stopes, in the back of fitto, is two feet wide, and worth 35%, per fathom. In the cighty fathom level, sast of Wall's shaft, the lode is one foot wide, with stones of ore; in the topes, in the back of this level, the lode is two feet wide, and worth about 50%, per fathom. The Fispjack lode, in the seventy fathom level, both cast and west of Wall's shaft, is without alteration. The lode in the sixty-two althom level, cast of Beay's shaft, is one foot wide, composed of mundic and par, with a small proportion of ore. The tribute pitches are still itooking favourable.

YRETOIL MINING COMPANY.

WINING WININ TRETOIL MINING COMPANY.

Jan. 24.—The lode in the thirty fathom level, cast of Williams's shaft, is two and a half feet wide—very good tribute ground for copper. Tregelles's lode, at the thirty fathom level, east of John's shaft, is about twenty inches wide; ditto west, two feet wide—both ends tribute ground for copper. The part we are driving on of the Mine-park lode, at the adit level, cant of Morcom's shaft, is about five feet wide—tribute ground for tin; we are about to grees—cat the lode; we are carrying the rise, in the back of this level, air feet wide in the lode—ti is very good tribute ground for tin. We are driving an end, about four feet wide in the lode, at the seventeen fathom level, cast of Morcom's shaft, which is good tribute ground for tin.

H. WILLIAMS.

J. MORCOM.

TREGOLLAN MINING COMPANY.

Jan. 24.—I beg to inform you that the lode in the forty fathom level cast large, and black and grey ore—worth about 3/. per fathom; the cross-cut orth, at this level, is extended 21 fms. 3 ft., but we have not yet intersected there of the lodes in this direction; the end is at present very vet, and the round somewhat harder than it has been. Friday last being our monthly titing—day for February, we set ten tributers' pitches at the following prices: we at 6s. 8d.; two at 7s.; one at 1s.; one at 10s.; one at 1s.; and three 12s. in the 1s. at 12s. in the 1/.

UNITED SILLS MINING COMPANY.

Jon. 24.—Williams's Shaft—No lode broken in this shaft since sur-

an, in the hope of being able to run under the old workings of the many claves of ore, shown to Juna, in the hope of being able to run under the old workings of the mine, and attain the continuation of same of the many claves of ore, shown to have been enjoyed in the old mine above. The Codre is in a less prosperson state than Assunction at this moment, and so circumstanced for the time as to place it beyone the means of doing naything towards relief by extension of work. The ore in the deepest bottom of the mine, the only point working for produce, has anarowed, and yields only some 40 cers, weekly, though the quality centinues good, about 18 men, per moniton. The sales of the last four weeks make a total of 703½ cgs., and produce \$32477 2—leaving to the company, after all deductions, \$7132 4.

Dec. 3.—The Assunction Mine has proved a counterbulance to the decline f the Codro. Both of these undertakings are of a first-rate description, and expalse, from one moment to another, of putting us on an easy footing. There is strong reason to expect that the Assunction workings are now in whole ground, and that the mine is not likely to be a burden any langer white Codro holds out the prospect of good returns, when time and means shall allow of its being more extensively worked. The mine will improve when the wet weather creases. Sirena left this week a small Neult of \$32.6 to the company's abare.

the company's share.

moved to the Louisa to the spalling floor.

COLOMBIAN MINING ARROGIATION.

From Mr. Charles Dependend.

Marmate, July 27.—The mins has not fallen aff, and, on the contrary, is improving, yet it is difficult and costly th break, even with untire miners, 1000 tons of rough ore, without the great expense for transming, carriage, &c. Angust 3.—Rough Ores for Angust—There is every probability of 1000 tons being stamped during the preaest month, including 200 from the North Salte, which, according to Mr. L. Degenhardt's assay, contained, in the issue ath, and. 12 dwts. See gold per ton. Middle, Escolastica, Eastern End Sinks—This has been such six fort, and when measuring this station prairedy, is company with my horder, we found the loid, to our exprise, above three feet wide, of cican ore, which shows much from gold in the lates. We been the workman who was ordered in the back of the rise from the deep Crusada adit very pinaly, and there is no doubt the companication will be effected in a few days.

Angust 16.—July Cost—It is truly lamoutable that this is no very high, \$1174. as seen in the following table, an particular extensions, except the correspond of fity-one cargus—thirty-right from Rio Nogros, and thirtoen from Santa Riam—amounting to \$6.16. having been charged; yet it much be no liefactory to you, I hope, as it is to me, to know that we have endenvoused to here that state later which, above extensioning the tributery produce, leaves a set profit of \$4.003. Allow me, however, to direct your aftention to the ground apput, and the hore amounted to \$6.134. July Ratherso—These concepts, before deducting the amounted to \$6.134. July Ratherso—These concepts, before deducting the amounted to \$6.134. July Ratherso—These concepts, before deducting the amounted to \$6.134. July Ratherso—These concepts, before deducting the amounted to \$6.134. July Ratherso—These concepts, before deducting the amounted to \$6.134. July Ratherso—These deducting the concepts and public which, according to the following table, a control o coording to the following lable, is more in July Uhan in any preceding south, and even four times as much as in January, when the total new memorized to \$6.134. July Returns—These amount, before deducting the violat, to 77 libr. 2 cm. 13 deats, cost gold, which, according to Mr. L. Desahardi's assess, in which I have full annihirates, mustains of libr. 18 deats on guid, and 20 libr. 2 cm. 2 deats. Cas allers; the profits which libres revers, with the action of an amount of the year, leave, including also that rising from the tributers produce, and guid-dust perchased, appears at 113,141, after deducting English pay, English materials, agants such, and other seed on the establishment, which is, is any opinious, a very substitute. Brimes current, on Toleanest this lade, is wouth 61, per fathoms.

S. La. a.

The An Six The Land Mixtures course and the control of the cont

negrees, who was gathering fire wood, was also carried to the Quebrada (for about 300 yards distance); she was found senseless, and very much bruised, but its recovering. A considerable loss will, no doubt, be softered, but the compentatedant will endeavour to bring in water on that side of the monutain, is order to beneficeate these tails by tribute—the only and sonst economical way. The real cause of this explosion is not yel ascertained, but it can only be owing to the confinement of gazes, which were produced during the process of decomposition. Tribute—Two parties of tributers were not at work with the Calibio tails, the company receiving one-half of their produce in gold, which is all to be delivered to the superintendent.

Sept. 14.—My last was dated the 5th inst., and the following day I received your favour of the 18th uit, with the board's extracts, Nos. 285 and 286, and a duplicate of the chairman's letter are distinct, clear, and explicit; and it affords me much pleasure at present to assuo you, an well and the board, that my efforts will dimately be eroward with success. From the tensor of my No. 6c of 14th August, and from the present favoureshie appearances of our mine, there is not the slightest reason to contemplate winding up the company's re-abilitation, and from the present are woughlate winding up the company's re-abilitation, and from the present are woughlate winding in an opinion, there would jield a sufficient supply of orce for a number of years for this establishment. The so-long losked for communication with a rise from this all't, and a such from the present and principal deep saits workings, on the Crouzala main lode, having been estimated above the Crouzala main lode, having been estimated the sources of ore amicipated by me in that quarter are actually existing, and that there is no exuse for doubting my previous statement respecting the sources of ore amicipated by me in that quarter are actually existing, and that there is no exuse for doubting my previous statement, respecting

worth to the board of directors, dated Marmato, thin receivery, and pages 31 and 32 of the printed report), and to which with pleasure I again refer you.

Sept. 22.—August Cost—This comes up to the esormous amount of \$3 max, but I leg to remark that is this item is included an extra charge of \$1,730—viz., for nules bought several menths since, \$700; eseguero book of the last eight months, including cost for canveyonce of returns, \$450; carriage of Kuglish stores, \$457; and for eera and tallow, \$170—1733. The August produce, less the gold purchased, will amount to 48 lbs. 6 on, 18 dwts., which, at the rate of \$245 per lb., will sanount to \$11,500, and thus August month will likewine less's again a handsome profit.

\$\textit{Ocf. 1.}\$—The Mine—The different favourable appearances in our peecen mining stations have an no account distinished, as you will observe from the inclosed mining report, and there is hardly any doubt but that we shall keep our cost materially within the value of the returns. The cost for August was certainly too high, but this was entirely owing to a very considerable extra charge for mutes, &c., not consumed in that month. The cost for August was entirely owing to a very considerable extra charge for mutes, &c., not consumed in that month. The cost for September, if no extra charge occurs, will, of course, be less, but the exact amount it is impossible to state even now. Mr. W. Degenhardt is measuring to-day all the bargains by himself, and, from his inclosed report, you will with pleasure observe, that in following up the Caudain hade in its greatest depth, west under the hill, in some stations one fathom will produce thirteen tons of clean ore. Mr. W. Degenhardt, has, this moment informed ease of a most extraordinary heave having been discovered also in the deeper workings of the saito—viz., in the Kacolastica and west, where the lode was lately dis, ordered and poor. The lods west after the heave, runs nearly north and south, has been discovered eleven feet velde, containing eighteen inc

Wheel Roche, St. Ausfell,—While B. Juiyan and W. Hore were at their work, in this mine, the ground fell and buried them; they were dug out with all possible speed, but both were dead. Julyan had changed his core of working with one of his comrades, that he might go to St. Austell market in the

flernoses. Marchay Colliery.—M. Beatley met with his death in consequence of a feer of east failing upon his head, out of the case is which it was being cawa out of the pit; he had been previously cautioned not to remain at the oftom of the shaft whilst the coal was being drawn up, but refused com-

diance. Chforthfa,—J. Protherce, a miner at Cyforthfa, was severely injured in he level on Tuesday last, from a large stone having fallen on him.

Philadelphia Works, Nheffield,—On Monday morning, about areas o'clock, the neighbourhood of Philadelphia Works, Sheffield, was alarmed by a report, loud as a direbarge of artillery, occasioned by the explosion of a large (40-horse) steam-boiler on that establishment, the precise cause of which has not yet been explained; both of the bottom ends of the boiler were hown completely out, though it is stated that the steam had not been got thoroughly up, and that there was such a sufficiency of water as to wash the gracel off a road at some distance when the explosion occurred.

Jarrow Alkali, Works,—An fawful calentity occurred at Jarrow Alkali-Works, South Shields, yesterday week, by the explosion of a shoom original builter, whereby seven or eight workson were droubliftly scalind, two of whom (J. Smith and T. Robertson) died that evening, and the others remain in a very precarious state. The builter was blown up and thrown to a great distance, together with stance, briefs, &c., sentered in all directions.

APPLICATION OF THE WIRE ROPE TO REGISTE aptains, commanders, and first lieutenants of ahips in commission, here captains, commissioners, and first featers and of the in commission, here lately been hold, to take into consideration the expediency of a proposed alteration which has been suggested of substituting iron instead of rope in certain parts of the rigging of ships of war, especially the finitest shrouds. The majority of the officers composing these meetings were averse to the change, consuldering it at best a meeting them therefore meeting were averse to the change, consuldering it at best a meeting them beneficial results; and that, while it would prove prefixe meeting where commission than the coverage meeting. to be estroyed with injurious rather than beneficial results; and that, while it would prove neither more communical than the present mode of rigging ships, nor affired any substituted security to the marke, it would give an extra and unaccessory weight slott, calculated to make vessels top-heavy, and there would be greater difficulty in replacing the iron, should any portion of it be carried usay by alost or otherwise, these the repo new in use. Similar meetings here also been held by masters and bustewains, who are still more decidally apposed to the proposed alterations.—Unifed Service Gazeffe.—[The opinions here advanced are at complete variance with the results of experience. The suight to considerably lessened—the size of rope, or surface exposed to the action of the wind, reduced—and there is, further, an economy in the application. It is a pity that opinions of this mature should be promulgated, as by authority, without scenething more explicit being statef—the recorded evidence of numerous officers connected with the Admiralty, and ensumement of the page of the page was the economy, we have no healtstice in aging, has been proved; and the comparative weights and size of hempen and wire rope speak for themselves.]

supen and wire rope speak for themselves.)
Fuzzu. Incurants. —M. de Humboldt has recently presented tendemy of Sciences at Paris, in the name of M. Europhurg, specihorg, specia of a posty argillaceoust deposit, lying twenty fact below the parement of the city of Berlin, and illied with infraoria still living. Traces of the sake terreness life are observable three feet below the buttom of the Syres. Since 1636, when M. Ekronberg first called attention to the immense antia, or solo ris, or microscopic animals, in the more rement reasion to cheerre, that the organic formes are call fuffs so active in the mod of ports and rivers, that at Noiscomunite, in the Hal on active in the send of perts and rivers, that at Heisensoninels, in the Haltie, for enaceple, where shows two and a toil millions of eacher fine of sood were reconstly reasoned in one year, one-third of that satire made consisted of microscopic anisanis. The mores of Limburg present asymmetations of fossil influencies twenty-sight first in thickness. In the peary layer of Berlin, transmissingly deposits of eggs reach, in some places, to the depth of sixty fact. There is no despit that they are still allow and appeals of increase. Spectaments motion may be often charred in speciment taken from the greatest depth, though less frequently then in these angeths on the ordain. M. Eitersherg, in whose bands the sourcesope has reconsided much species, in church to produce a work on fossil influencia, similar to that whith he has shready published on the living species of microscopic soussels. prosenjoir aximale.

METEGROLOGICAL JOVENAL, 1841.

SERVED BOLOGICA L. JOURN 6.1., LEGAL

Thursd. 25 lesson 22 in 13 | 20. As in 20.27 Marshay 14 forms | 2 to 21 | 20.25 to 12.25 for 12.25

100



the fifty serves west, on the ear of ore. The thirty, west of S. I of Hodge's of ore. The thire worth 6L per faths

MONEY HARKET AND CITY NEWS.

CURRENT PRICES OF ENGLISH AND POREIGN PUNDS

CORBENT PROCESS OF E-philip Account, NS & 20 h per Cents, NS & 20 per Accessor NS & 20 per A

Danish, 3 per Cent., 61 a
Dutch, 2a per Cent., 61 a
Dutch, 2a per Cent., 61 a
Bette, 2 per Cent., 62 a
Bette, 3 per Cent., 2a a
Bette, 3 per Cent., 1134
Sannish, Actives, 2 per Cent., 248 å
Chili, 5 per Cent., 62 7a
Bettenn, 5 per Cent., 21 a
Bettenn, 5 per Cent., 21 a

REMARES ON THE OPERATIONS OF THE WEEK.

REMARRS ON THE OPERATIONS OF THE WEEK.

BATURDAY JAN. 21.—There was little business transacted on the Stock Racksongs, and prices remain without unstroid alteration.—The same observation applies to the foreign married, in which scarcely a shade of factuation was clearry ables; the divisional psying securities but a good and from quotations.—There was come change in the prices of the principal lines of railway, the literature.—There was come change in the prices of the principal lines of railway, the literature.—There was come change in the prices of the principal lines of railway, the literature.—There was come of the prices of the principal lines of railway, the literature.—There was considered to 170 i per share; Sooth Westeros recorded the head in the literature having been transacted throughout the day; Console for Messey closed Sig., 4the for the Account, and § Lashinguar Bibs, [7s. 10s. por., Bank Shoch, 167 168; India Stock, 247 1 per Cents. Reduced, 203 i few \$1 per Cents. Reduced, 203 i few \$2 per Cents. Reduced, 203 i few \$2 per Cents. Reduced, 203 i few \$3 per Cents. Reduced, 203 i few \$3 per Cents. Reduced, 203 i few \$3 per Cents. Shock 167 i few india Stock, 247 i per Cents. Reduced, 203 i few \$3 per Cents. Shock 167 i few india Stock, 247 i per Cents. Reduced, 203 i few \$3 per Cents. Shock 167 i few india Stock, 247 i per Cents. Reduced, 203 i few \$3 per Cents. Shock 167 i few india Stock, 247 i per Cents. Reduced, 203 i few \$3 per Cents. All 41 per Cents (see Shock American stocks were heavy. Purtugues a bort cont., \$1 per 10 per Cents., \$1 per 10 p

to discontinuo its inscisses and wind up its affairs.

THERDAY.—Although most of the public relices and the Stock Exchange were closed, on account of the christening of the Prince of Wales, the bankers, and, indeed, all who were to any war consected with mercantile paper, continued two-learners as small.—The cases of exchange remain words the same as lear part American, also the same and the

cachange hetween England and America being int 20-08 per cent., it indices that the enthange is the per cent against England. But the quoted enthange at New York being for this at daty days' eight, the interest much be deducted from the shore difference.

WEGHERDAY.—The funds were quiet, and firm of lead quotations, though anexatify at annation of any particular importance took place during the day-merchy is tannation of any particular importance took place during the day-merchy is tannation to the particular importance took place during the day-merchy is tannation to the particular importance took place during the day-merchy is a supported by the above the interest here in Sannith shoult, the Active founds being new quoted 254 ft Deferred, 128 ft Chrombten. If ft it Mexican Books, 79 ft and Beighten, 1958 ft is 10 charred, 128 ft it Chrombten. If ft it may be a supported particular to the marked at the place gave anythiosy but an Improving appearance to the marked, litering banes, 174 till, South Westerns, 25 ft it is 10 chart, which is the control of the marked at the place gave anythiosy but an Improving appearance to the marked were without foodure to day. In the Shouth Westerns, 25 ft is ft is 10 chart. Westerns, 25 ft is ft is 10 chart. Westerns, 25 ft is ft is 10 chart. Westerns, 25 ft is 6 ft is 10 chart. Westerns, 25 ft is 6 ft is 10 chart. Westerns, 25 ft is 6 ft is 10 chart. Westerns, 25 ft is 10 chart. Show, 10 chart. Show, 10 chart. Show, 10 chart. Shows 10

Frem any rem surrespond

AMETRIDAM, Jan. 31.—Actual Dobt, 19 per Cende., \$15 to 4: 5 per Cende., 505 to 1: 13; Ameri Grade., 48 per Cende., \$15 to 10; Ameri Grade., 48 per Cende., \$15 to 10; Allton, 29 per Cende., 70 to 70; Cum. Secrited Company, 4; per Cente., 1884 to 5: Looks, 1887, 2 per Cente., 15; to 8. Revibange on Lookson, 12 of 5; two security, 12 of 2; ditto on Hambergh, 22 724; two security, 21 of 2.

BREALN, Jan. 16. St. Schuld Sch., 4 per Conte., 1041 to 104; Prescien English Brode, 1805, 4 per Conte., 18.2 to 1028. Exchange on London, three months, 6 of 1.1d security.

BRICKEELS, J. v. S. - Arbad Dubé, S. per Cents., \$25; Rothechild's Loss, \$112. Sec. 20,903,000, 81; 6310, 8., 80,00,00,71; 5310, 1841, 1022; Bank of Belgioss, 78.

BAMBURGH, Jan. 21—Austrian F per Cunts. — hills. 100 nouper; Beak Sanon, 1401 bills, Russian-Exquish Luan, 1112 bills, 1-02 sensory; Five tor last. Hamburgh vertebrate, 102 bills, 1-02 sensory; a per Cunts. 1st Service storigations. — bills, 2010. Hope ont Cu., if and 4th Norses. 50 source; diffus, in stripmate, 101 nouner; force a per trains. 1st of, 504 bills, 304 sensory; Butch Artuals, 1st of, 504 bills, 102 sensory; Butch Artuals, 454 bills, 102 sensory; Butch Artuals, 454 bills, 102 sensory; Butch Artuals, 455 bills, 102 sensory; Butch Artuals, 102 se

6 M. PARIS, Jan. 17 -- 1 per Coults., [186, 5/4]. 4 per Coults., 1886. ; 5 per Coults. [186]. 6 per Coults. [18

WIRENA, Sau. 14. - 5 per Cunts., 1883; 4 per Cunts., 184; Sunh Shares, 1896.

EATERS PERIODS AND INVESTMENT OF CONTROL OF THE COMMON ON THE AND RESEARCH AND RESEARCH AND THE PROPERTY OF TH

NEWLAST, Courses, and not now heavy in the market. The facther decimal, and not now heavy in the market. The to be described and Carmon Schwarz, Till Structural and North Shimble, 461; and Structural Annual Carmon and Structural and Shimble, 161; Bartingson and Shimble, 161; toward switch of Englands, 7:1. Northwarz, and Shimble, 161; toward switch of Englands, 7:1. Northwarz, and Shimble, 161; toward switch and the switch and the

whether V mines the Company, 747. I benchman Commiss Company, 840.

1818. For example 1 — A field words, and lifting benchman draws. — disconsiphers and lifting benchman is a first of the 27%. Secretary and a lifting benchman is a first of the 27%. Secretary and a lifting benchman is a first of the 27% of the 27%. Secretary and the district of the 27% of the 27

But any surface of Tear and the American and Director Relevant, 70, to 500, per 1 Dec 1 State of the State of

LEEDS, TRUESBAY.—A peculiar spathy appears to pervade the chare trade at the patiental rimes—partly arising from the state of the menoy market, partly from the state of the menoy market, partly from the state of the menoy market, partly from the season of the year, but chiefly from the expectation of all parties looking forward to what will be done resisting to commercial matters in the ensaing Farlian ment; of course, the anticipation of the half-yearly meetings next mouth, with the fortheroming dividents, are looked forward to with increased attention and interest. The good receipts of the Macchesier and Looke Rallway, at this season of the year, equalling 3716, on average for the last four weeks, are inspiring more confidence in this line, and are edging up prices to it. to £1, no. on the fell shares—this is very different to 76, dis. about seven months ago! North Milliands are quiet at the quotations. Manifeld and Rotherhana are in fair demand at 274, with dividend.—North Midland Rallway, 711.; York and North Misland, 9241, Leeds and Seiby, 1924, 1934, 1

Billistoff, Fairay.—Our market is decidedly flat, and Western stocks have given way considerably since my last.—Great Western Railway, 604. to 814. haives, 604. to 604.5 fifths, 524. to 524. It bristol and Entiret, 244. to 234. Bringham and Gloucester, 644. to 248. Bringham and Gloucester, 644. Chellenham Union, 484. to 1541. Tall Vale, 634. to 704.—Bristol Gos Company, 224.; Clifton, 534.

EDINBURGH, Wassandar, - Edinburgh and Glasgow Railway, 421.; to de Edinburgh, 361.; Glasgow and Greenock, 231.; Glasgow and Garnkirk languw and Ayrshire, 371.; Wishaw and Coltacos, 401.; Dundon and Art Clasgow and Forfar, 221.

GLASGOW, Westvanar, -Ballochney Rallway, 751, Dunder and Arbronth 771.; Edinburgh and Giangow, 461.; Getukirk and Glangow, 461.; Glangow and Greenouth, 7211.; tiliangow, Paisley, Kimaronck, and Ayr, 371.; Monkland and Kir kintilooth, 564.; Stemannan, 251.; Wishaw and Collines, 461.

SALE OF COPPER ORES IN CORNWALL.

Sampled Jan. 12, and Sold at Pearce's Hotel, Truro, Jan. 27.

Mines.	Tons.	P	rice	le ·	Purchasers.	Mines.	Tons.		Pric	10.	Purchasers.
Console .	. 115	45		Ď.,	Williams	Trethellan			8	-	. Viriana.
ditto	110	7	ā		Virians.	Hallenbea			2	6.	
ditto	160 .	8	19	£.,	Williams.	diffo	471		3		F. Greafells.
ditto	107	6	.00	0	rend	ditto	471	A	3		. Williams.
ditto	86	8	12	ě.,	monos:	ditto	78 .	1	12	6.	, some
ditte	76 .	8	118	6.,	Market 1	ditto	81	2	18		, Mines Royal
ditta	75	6	2	ě.,	MARKET .	ditto	20	5	1.0	6	. Viviana.
diffe	76	4		0	The Spinish	ditto	16	- 1	1.2	6.	-
ollile	55	2	11		Virians.	Fawey C		- 8	1	6.,	Freemans.
stitto	27	3.	4	6		ditto	44	5			. Williams.
ditte	27		4	0.,	Williams.	ditto	81	5	.7	6.	Fromans.
ditte	55	4.1	160	ø.	Vistans.	ditto	54 .		18.	6.	mores
dista	52	8 1	19	6 ,	Williams.	ditto	34	8	8.8		Williams.
ditto	47	6.1	1.5	Ø.,	Virtans.	Unity Woo	478 .	4	16	10.	. Williams.
ditto	B	4 1				ditto	294	6	9	8.	Freemana.
Freedwaren		4		6	Presentant.	ditto	795	6	95	8.	P. Grenfells.
ditto	85.5	2			Viviana.	ditte	34	. 8	7	0.	Nevill & Co.
ditto	45.5	2	6	d.,	Nevill & Co.	Union	. 21	6	20	6.	100300
ditto	83	7 1	13		Vivlans.	Wh. Ellen.	. 62	3	28	a.	
ditto	84	4	3	6.,	-	ditto	26	4	2.8	16.	Vivians.
disto	71 .	4 1	100	6 .	and the same of	ditto	26	4	1.3	6.	Freemans.
Imited M.		-	2	6 .	Productor.	ditto	38	3	8.6	Ø.,	P. Grenfells.
ditto	E05	8	3.	6	STORES	ditto	25	7	8	g.,	Mines Royal
ditto	274	5	28	ø,	Viviant.	GLW Char	. 50	2	6	0.	Vivians.
ditto	224	8	ä	0	Nevill & Co.	ditto	85	1	LS	0.,	
dista	244	à	2	S	Williams,	ditto	28	6		8	Freemans.
ditto	80	4 1	0	ď.,	depose.	Tregutheau	B 26	3	5	.0	P. Grenfella.
Frethellan		Á	10	ď.,	Navill & Co.	ditto	27	3	1.8	B.,	-
aitto	40 .	.8		4.	-	ditte	16	4	1		Williams,
431518	48	18	1	E.	Williams	Wh. Tchid;	F 32	2	1		P. Grenfells,
disto	57	2	15 /	6	-	Perrao M	. 50	18	6	0 .	Vivians.
ditto	83 .	2		6	Secret	Bulconn .		1	16	6	
ditto	81	à.		0.,	Nevill & Co.						

TOTAL PRODUCE.

Consolidated	4172	2	6	Wh. Unity Wood	100		1108	2	
United Mines 1808	2563	18	8	Gt. Wh. Charlotte	114		53.4		ø
Treffiellan 186	1.699	98	8	Tregothesea Cons.	7.8		244	9	18
Hallenbeagle, 350	1556	1.5	6	Wh. Tehidy	32		200		
Power Console 247	1457	1.0	6	Ferran Mines	2019	20. 488	99		
Wh. Ellen 174	763	2	0	Buleuna	24	1113.11	39	12	6
Average standard, 1247, 130		rece	wex	produce, \$4,-Ave	9359	price. 5	2.74	Bit.	.000

Average standard, 124. de. no. -Quantity of fine copper, 2.5 burst, 1 cwt. -Amount amount, 18,6144. 14s. 6d. -Average standard of last sale, 1264. 2s. -Average property. money, 74. COMPANIES BY WHOM THE ORES WERE PURCHASED.

| Yenea | April | Yenea | April | Apri

Copper over for sale on Thoroday next, at Androvéa Hotel, Bedruth,—Mines and Parestelle.—Bast Wheai Croffy, Ac., Sint, Par Cosseile, All & Bast Parel, All policies and parel, United Hills, Suit; Facey Conseile, Jil; Stray Park, Stl; East Parel, All; South Wheal Basset, 100; Freinigh Cosseile, 100; Wheal Harmony and Cardiave, 170; Tyrotol, 161; Wheal Harriot, 132; West Wheal Eartiet, 132; West Wheal Eartiet, 132; West Wheal College, 100; Harvey's Ore, Councer over the All.

Cupper over for cale on Thursday week, of Audrew's Hotel, Refeath.—Mine and Parcels.—Fowey Contacts, [42], Wheal Prisondable, Sc., [53], Levant, [43] Wheal Tremevas, [10], Whitel Prividence, St., Prividence Mines, [4], Wheal Curfe, [9], Suchi Wheal Neutane, 13], Wheal Chippen-lake, iii; Budalck, [4], Wheal Mary, [6], Serriman's Ore, [7], Wheal Virgin, 3-4.—Total, 1283 boss.

BALE OF COPPER ORES AT SWANSEA.

TOTAL PRODUCE #2700 1 0 Pisenis.
2314 15 0 Liwydd
2815 15 1 Chasadro
8000 10 2 Chill ...
2417 9 4

COMPANIES BY WHOM THE ORES WERN PUBLICANED.

Tiles

£15,536 0 0

Copped over the sale Policies y 8.—Critica 114, disso 57, dibbs, 76, disso 56, disto 58, disso 58, disso 58, disso 58, disto 58, disto 58, disso 5

PRICES OF MATERIALS IN CORNWALL AS SUPPLIED AT THE PRINCIPAL MINES IN THE POLLOWING MONTHS,

would, Trangha...d. E. Welldon, Cambridge, beliefer and Davids (Common box, par etc.). The fig. for a first box of the common box, par etc. The first box of the common box, par etc. The first box of the common box, par etc. The first box of the common box, par etc. The first box of the common box of the first box of the fi

"y" I've figures at the top of the evaluate rates to expection as I found I felt, for

LATEST CURRENT PRICES OF METALS. LONDON, JANUARY 29, 1842.

HEMARES.—The iron market is quite stendy—copper very dull. The lie saies on the 27th sold at (4576 blocks and bars) 67s. nett cash; the quite paralysed by the operations, being a fall of full 16t, per tons—gross 78s. Lend is also dull, and spelter nothing deling, though the market deway, nor is it theely, while the purts are closed for the next five mon arrivals. In other metals no alteration.

COAL MARKET, LONDON.

MONDAY.—Price of coals per ton at the close of the market:—Adair's 16—Bedl Robson's Hartley is—Baddie's ditto is 6—Ponton Windson !? 6—Will's 23—Wall's End Cicanell Is—Eron is—Hilda !9 6—Hotspan is 6—Killingw !? 3—Perkins !8—Braddyli's Hetton 23—Hetton 22 9—Lambton 22 9—Penker !9 3—Penker !9 3—Servicis !8—Servicis !9—Servicis !9

